



# Parts Manual



## EXPRESS SERIES LAWN TRACTORS & MOWER DECKS

### 14.5HP GEAR TRACTORS

Mfg. No.	Description
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1693452	Express, 14.5HP Gear
1693586	Express, 14.5HP Gear (Export)
1693666	Express, 1415G (Export)
1693732	Express, 115G (Export)

### 15.5HP HYDRO TRACTORS

Mfg. No.	Description
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1693458	Express, 15.5HP Hydro
1693589	Express, 15.5HP Hydro (Export)
1693668	Express, 1416H (Export)
1693734	Express, 116H (Export)

### 17HP HYDRO TRACTORS

Mfg. No.	Description
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1693525	Express, 17HP Hydro
1693641	Express, 17HP Hydro (Export)
1693670	Express, 1417H (Export)
1693736	Express, 117H (Export)

### MOWER DECKS

Mfg. No.	Description
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1693464	38" Mower Deck
1693588	38" Mower Deck (Export)
1693527	44" Mower Deck
1693591	44" Mower Deck (Export)

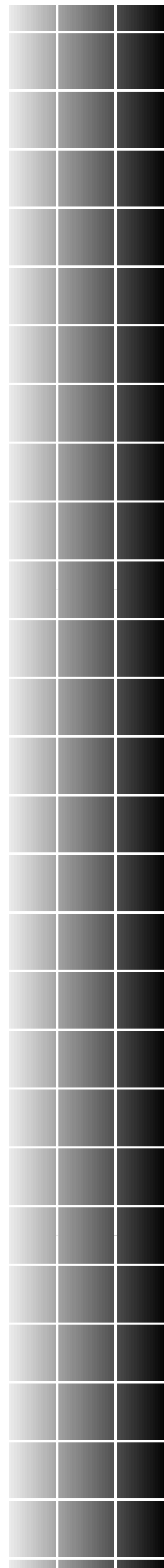


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MANUFACTURING, INC.

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Port Washington, WI 53074-0997 USA

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**This Manual Covers The Following Products:**

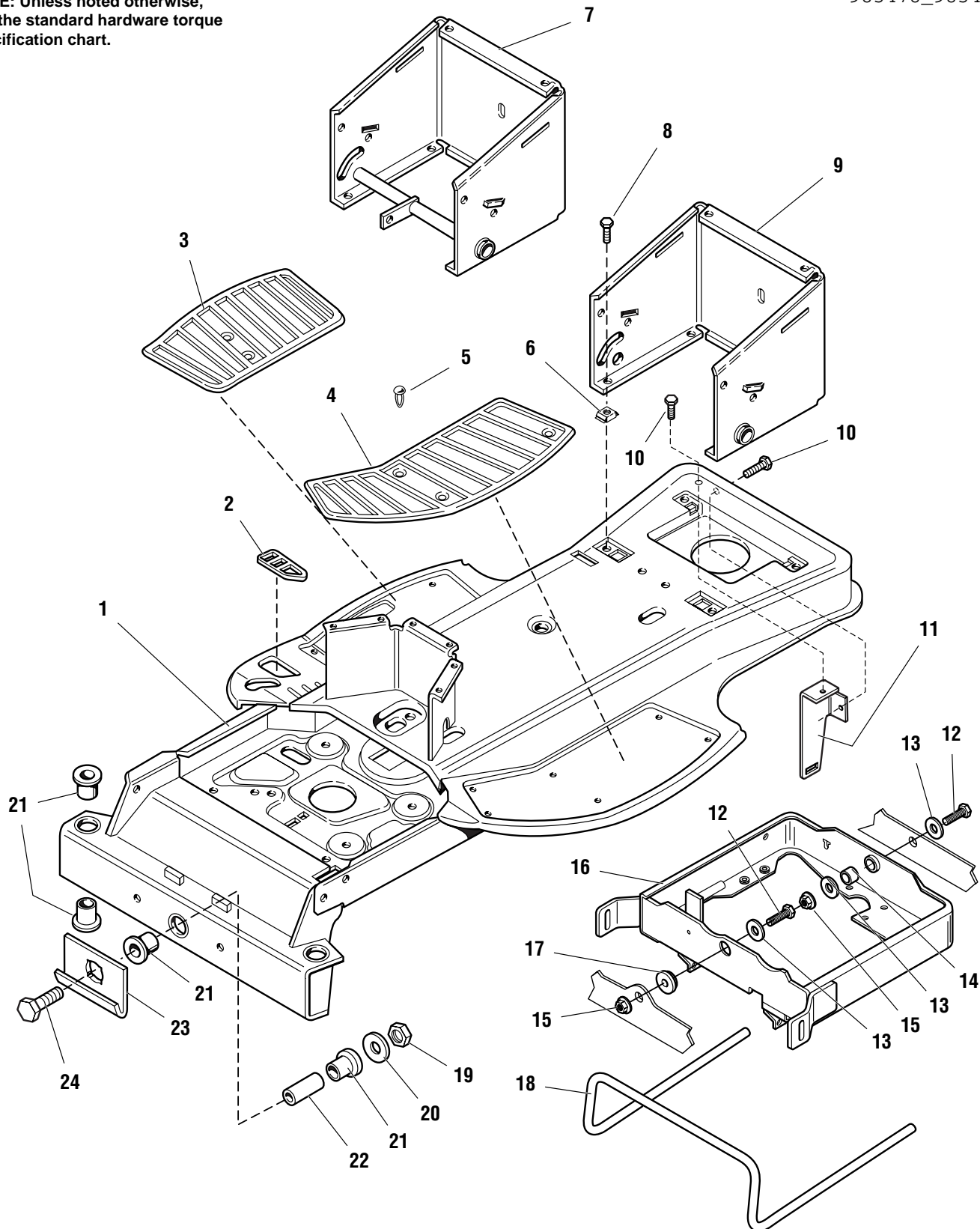
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## Frame & Front Axle Group

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**NOTE:** Unless noted otherwise,  
use the standard hardware torque  
specification chart.



### The above parts group applies to the following Mfg. Nos.:

1693452	Express, 14.5HP Gear	1693458	Express, 15.5HP Hydro	1693525	Express, 17HP Hydro
1693586	Express, 14.5HP Gear (Export)	1693589	Express, 15.5HP Hydro (Export)	1693641	Express, 17HP Hydro (Export)
1693666	Express, 14.5HP Gear (Export)	1693668	Express, 15.5HP Hydro (Export)	1693670	Express, 17HP Hydro (Export)
1693732	Express, 14.5HP Gear (Export)	1693734	Express, 15.5HP Hydro (Export)	1693736	Express, 17HP Hydro (Export)

## Frame & Front Axle Group

REF NO.	PART NO.	QTY.	DESCRIPTION
1	1720101	1	FRAME ASSEMBLY
2	1715015	1	PLUG, Hole
3	1715016	1	PAD, Footrest, R.H.
4	1714417	1	PAD, Footrest, L.H.
5	1704351	12	FASTENER, Plastic, Ratchet
6	1935255	4	SPEED NUT, Tinnerman Lug Type, 5/16-18
7	1715796	1	WRAPPER, Rear Frame (Gear Models Only)
8	1930591	4	CAPSCREW, Whiz Lock Hex Hd, 5/16-18 x 3/4
9	1715795	1	WRAPPER, Rear Frame (Hydro Models Only)
10	1924856	2	CAPSCREW, Taptite Hex Washer Hd, 5/16-18 x 1/2 (Hydro Models Only)
11	1719951	1	BRACKET, Speed Control (Hydro Models Only)
12	1920328	2	CAPSCREW, Hex Hd, 1/2-13 x 1-1/2
13	1918431	3	WASHER, 1/2
14	1709235	1	BUSHING
15	1930644	2	NUT, Hex Flange Hd, 1/2-13, 2-Way Lock
16	1717189	1	CARRIER, Transmission (Hydro Models Only)
16	1717458	1	CARRIER, Transmission (Gear Models Only)
17	1717286	1	SPACER
18	1713400	1	TORSION BAR (Gear Models Only)
18	1717424	1	TORSION BAR (Hydro Models Only)
19	1919439	1	NUT, ESNA Hex Lock, 3/8-16
20	1924356	1	WASHER, 3/8
21	176440	6	BUSHING
22	1719868	1	SPACER
23	1719869	1	HITCH, J-Hook
24	1922918	1	CAPSCREW, Hex Hd, 3/8 - 16 x 3-1/4 G5

### Footnotes:

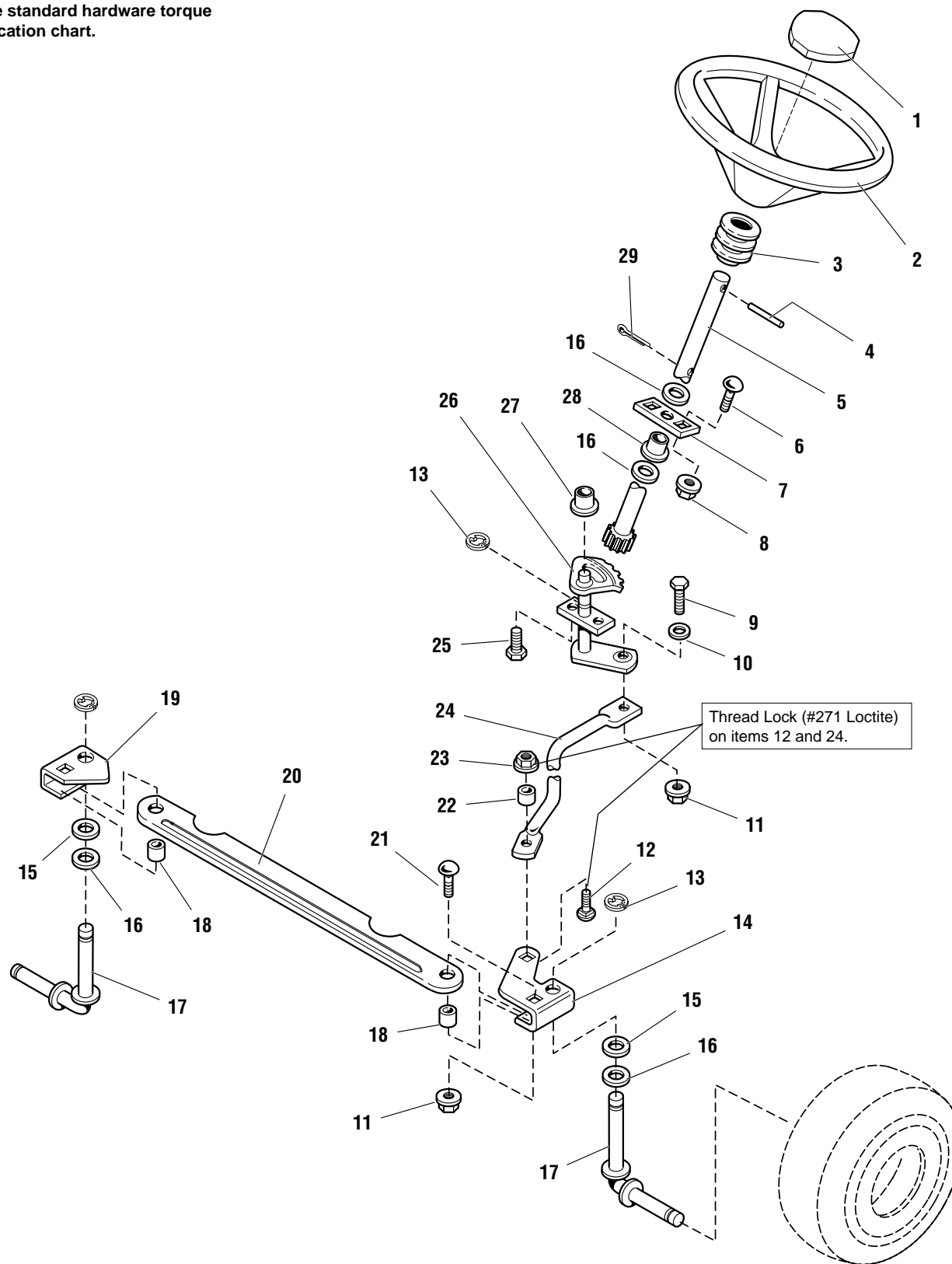
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1693666	Express, 14.5HP Gear (Export)	1693668	Express, 15.5HP Hydro (Export)	1693670	Express, 17HP Hydro (Export)
1693732	Express, 14.5HP Gear (Export)	1693734	Express, 15.5HP Hydro (Export)	1693736	Express, 17HP Hydro (Export)

## Steering Group

985474

**NOTE:** Unless noted otherwise,  
use the standard hardware torque  
specification chart.



### The above parts group applies to the following Mfg. Nos.:

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1693732	Express, 14.5HP Gear (Export)	1693734	Express, 15.5HP Hydro (Export)	1693736	Express, 17HP Hydro (Export)

## Steering Group

REF NO.	PART NO.	QTY.	DESCRIPTION
1	1719810	1	CAP, Steering Wheel
2	1719471	1	STEERING WHEEL
3	1714400	1	TUBE, Flex
4	1960540	1	PIN, Spring, 5/16 x 2-1/2 (Domestic Only)
5	1719472	1	SHAFT & PINION ASSEMBLY, Steering
6	1931350	2	CARRIAGE BOLT, 3/8-16 x 1
7	1703508	1	PLATE, Steering, Mounting
8	1928352	2	NUT, Hex Flange Whiz Lock, 3/8-16
9	1920415	1	CAPSCREW, Hex Hd, 3/8-16 x 1-1/4
10	1922611	1	WASHER, 3/8
11	1930645	3	NUT, Hex Flange Whiz Lock, 3/8-16
12	1931335	1	CARRIAGE BOLT, 5/16-18 x 1
13	1611710	3	KLIPRING
14	1721472	1	ARM, Steering, L.H.
15	1960160	2	WASHER, 3/4
16	1960114	4	WASHER, 3/4
17	1721542	2	SPINDLE ASSEMBLY
18	1713791	2	SPACER
19	1721473	1	ARM, Steering, R.H.
20	1713454	1	TIE ROD
21	1960268	2	CARRIAGE BOLT, 3/8-16 x 1-1/4
22	1710437	1	SPACER
23	1935048	1	NUT, Hex Flange Lock, 5/16-18
24	1713469	1	DRAG LINK
25	1664847	1	CAPSCREW, Taptite Hex Washer Hd, 5/16-18 x 3/4
26	1713375	1	STEERING GEAR ASSEMBLY
27	1666001	1	BUSHING
28	176440	1	BUSHING
29	1919314	1	PIN, Cotter, 3/16 x 1-1/4

### Footnotes:

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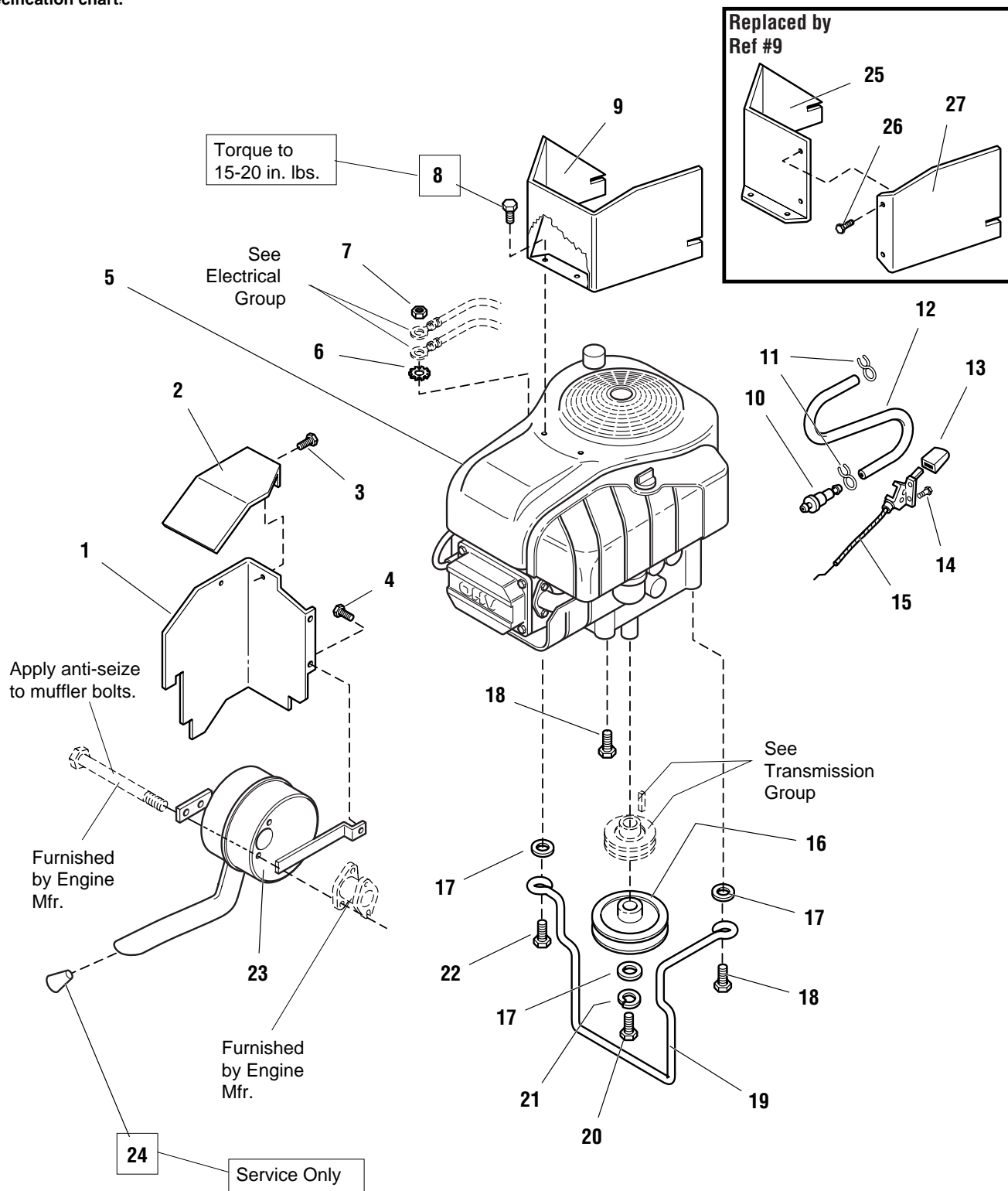
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1693666	Express, 14.5HP Gear (Export)	1693668	Express, 15.5HP Hydro (Export)	1693670	Express, 17HP Hydro (Export)
1693732	Express, 14.5HP Gear (Export)	1693734	Express, 15.5HP Hydro (Export)	1693736	Express, 17HP Hydro (Export)

## Engine - 14.5HP, 15.5HP & 17HP B&S Intek

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**NOTE:** Unless noted otherwise,  
use the standard hardware torque  
specification chart.



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1693732	Express, 14.5HP Gear (Export)	1693734	Express, 15.5HP Hydro (Export)	1693736	Express, 17HP Hydro (Export)



**Engine - 14.5HP, 15.5HP & 17HP B&S Intek**

REF NO.	PART NO.	QTY.	DESCRIPTION
1	1720040	1	SHIELD, Muffler Side
2	1720039	1	SHIELD, Muffler Top
3	1960001	2	CAPSCREW, Hex Washer Hd, Plastite, #10 - 14 x 5/8
4	1924856	1	CAPSCREW, Taptite Hex Washer Hd, 5/16-18 x 1/2
5	*	1	ENGINE, 14.5HP B&S INTEK
5	*	1	ENGINE, 15.5HP B&S INTEK
5	*	1	ENGINE, 17HP B&S INTEK
6	920427	1	LOCKWASHER, External Tooth, 3/8
7	916950	1	NUT, Hex, 3/8-16 NC-2B
8	1931648	2	CAPSCREW, Whiz Lock Hex Hd, 5/16-18 x 1/2
9	1721131	1	BAFFLE, Heat
10	173206	1	FUEL FILTER
11	1960112	2	HOSE CLAMP
12	1657575	1	HOSE, Fuel, 1/4 ID x 1/2 OD x 12
13	1719768	1	KNOB, Throttle (Red)
14	1960498	2	CAPSCREW, Plastite Hex Washer Hd, 1/4-10 x 5/8
15	1707388	1	CONTROL, Throttle
16	1719456	1	PULLEY (with Hub)
17	1933263	3	WASHER, 7/16
18	930598	3	CAPSCREW, Hex Washer Hd, Taptite, 3/8-16 x 1-1/2
19	1719460	1	GUIDE, Belt
20	1960370	1	CAPSCREW, Hex Hd, 7/16-20 x 2-1/2
21	1918199	1	LOCKWASHER, 7/16
22	960361	1	CAPSCREW, Hex Washer Hd, Taptite, 3/8-16 x 2
23	1719458	1	MUFFLER ASSEMBLY
24	1719961	1	SCREEN, Exhaust
25	1720037**	1	BAFFLE, Heat
26	1960034**	1	CAPSCREW, Plastite Hex Washer Hd, #10-14 x 1/2
27	1720046**	1	BAFFLE, Engine, LH

**Footnotes:**

\* Obtain repair parts from your local Briggs & Stratton Distributor.

\*\* Replaced by Reference 9.

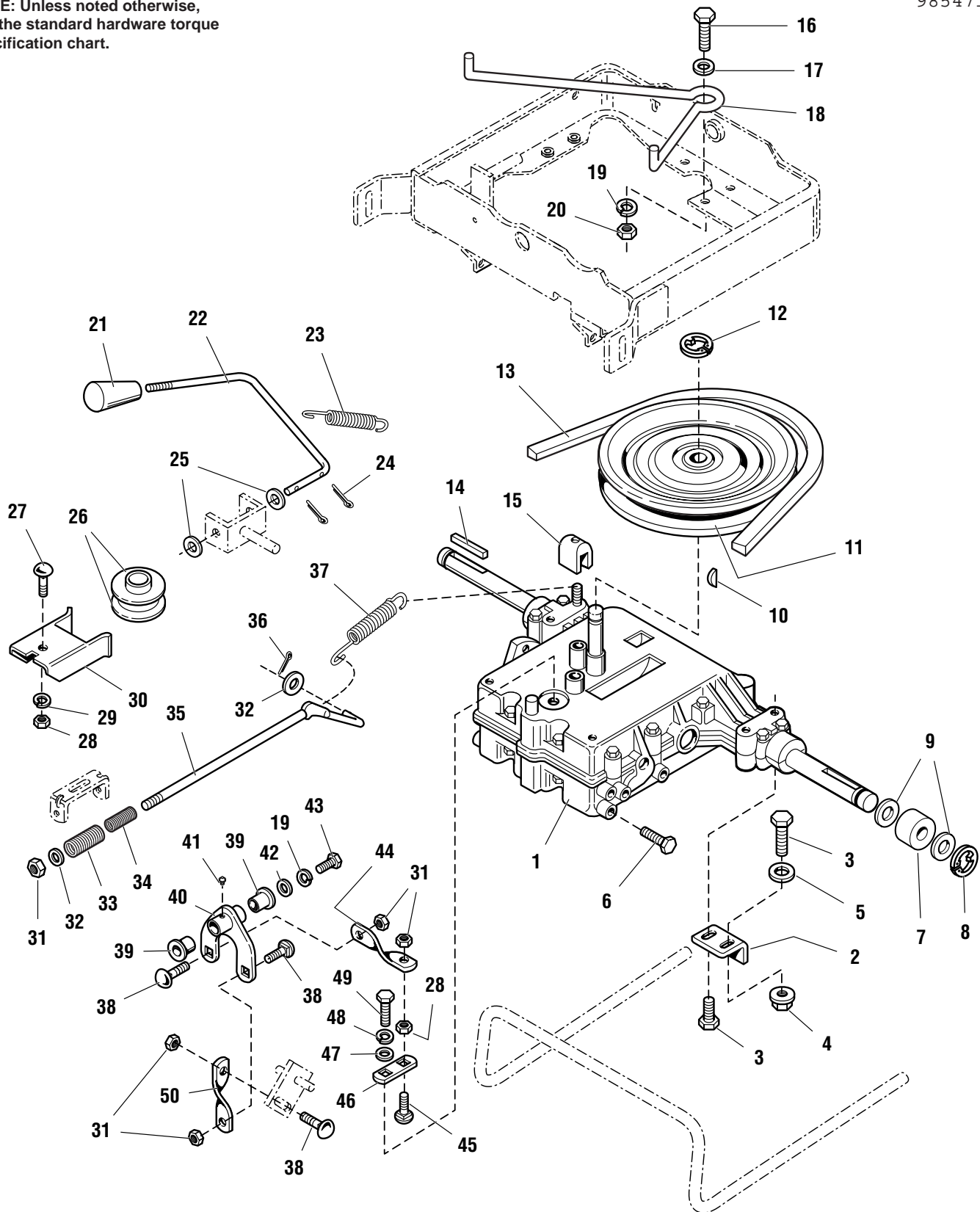
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1693666	Express, 14.5HP Gear (Export)	1693668	Express, 15.5HP Hydro (Export)	1693670	Express, 17HP Hydro (Export)
1693732	Express, 14.5HP Gear (Export)	1693734	Express, 15.5HP Hydro (Export)	1693736	Express, 17HP Hydro (Export)

## Transmission Drive & Carrier Group — Peerless Model MST 205-515A Transaxle

985471

NOTE: Unless noted otherwise,  
use the standard hardware torque  
specification chart.



The above parts group applies to the following Mfg. Nos.:

1693452	Express, 14.5HP Gear
1693586	Express, 14.5HP Gear (Export)
1693666	Express, 14.5HP Gear (Export)
1693732	Express, 14.5HP Gear (Export)

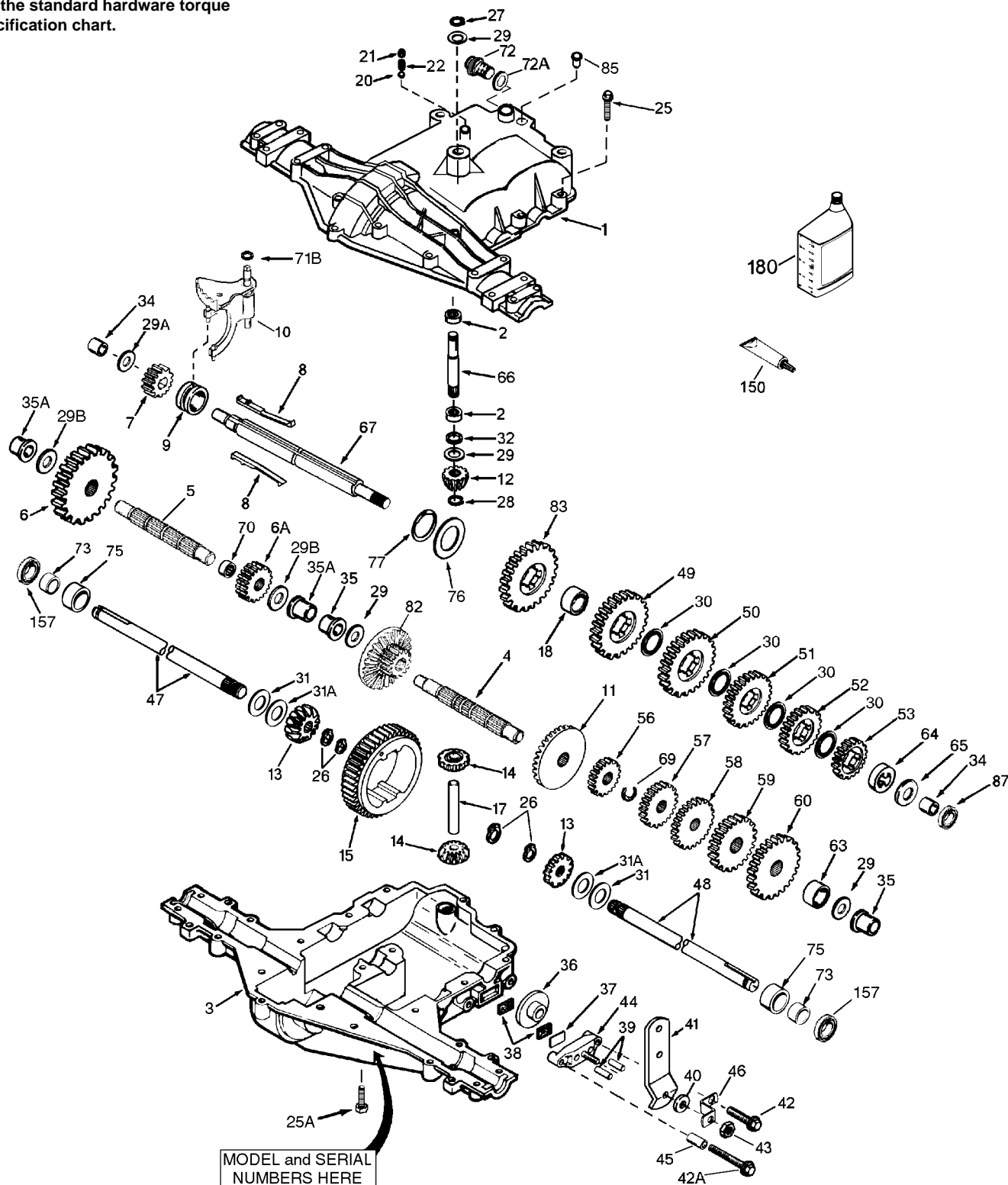
**Transmission Drive & Carrier Group — Peerless Model MST 205-515A Transaxle**

REF NO.	PART NO.	QTY.	DESCRIPTION
1	1720619	1	TRANSMISSION ASSEMBLY
2	1716103	2	ANCHOR, Torsion Bar
3	960551	6	CAPSCREW, Tapitite Hex Washer Hd, 5/16-18 x 2-1/2
4	1927557	2	NUT, Hex, Flange Whiz Lock, 5/16-18
5	1919381	2	WASHER, 5/16
6	1930601	2	CAPSCREW, Tapitite Hex Washer Hd, 5/16-18 x 5/8
7	1715043	2	SPACER (Domestic Models)
8	927794	2	E-RING (Domestic Models)
9	960202	4	WASHER, 3/4 (Domestic Models)
10	905123	1	KEY, Woodruff #9 (Domestic Models)
11	1714764	1	PULLEY ASSEMBLY
12	927103	1	RING, Retaining
13	1664789	1	V-BELT, HA
14	1717749	2	KEY
15	1928703	1	SPEED NUT, "U" Type, #14A
16	1920415	1	CAPSCREW, Hex Hd, 3/8-16 x 1-1/4
17	1924940	2	WASHER, Plain, 3/8 (Domestic Models)
18	1719595	1	GUIDE, Belt
19	1916965	1	LOCKWASHER, 3/8
20	1916950	1	NUT, Hex, Full, 3/8-16
21	1713843	1	KNOB, Plastic, Gear Shift
22	1719762	1	ROD, Shift
23	156302	1	SPRING, Gear Shift
24	1918448	2	PIN, Cotter, 3/32 x 1
25	1960027	2	WASHER, 1/2
26	1714536	2	PULLEY HALF, Engine PTO (Gear Models)
27	1931333	1	CARRIAGE BOLT, 5/16-18 x 3/4
28	1917372	2	NUT, Hex, Full, 5/16-18
29	1917356	1	LOCKWASHER, 5/16
30	1720293	1	GUARD, Belt
31	1919438	5	NUT, Hex Nylon Lock, 5/16-18
32	1919326	2	WASHER, Plain, 5/16
33	1719824	1	SPRING, Compression
34	1719825	1	SPRING, Compression
35	1714767	1	ROD, Brake
36	1918447	1	PIN, Cotter, 3/32 x 3/4
37	1678341	1	SPRING, Return
38	1960223	3	CARRIAGE BOLT, 5/16-18 x 1-1/4
39	1663114	2	BUSHING, Plastic, 5/8
40	1660365	1	BELLCRANK ASSY
41	921133	1	FITTING, Grease
42	1924940	1	WASHER, Plain, 3/8
43	1921965	1	CAPSCREW, Hex Hd., 3/8-16 x 3/4
44	1715028	1	LINK, Shift, Lower
45	1960555	1	CARRIAGE BOLT, 5/16-18 x 1-1/2
46	1714556	1	LEVER, Shift
47	1921319	1	WASHER, Plain, 1/4
48	1916964	1	LOCKWASHER, 1/4
49	1922234	1	CAPSCREW, Hex Hd, 1/4-28 x 5/8
50	1715029	1	LINK, Shift, Upper

**Footnotes:****The above parts group applies to the following Mfg. Nos.:**

1693452 Express, 14.5HP Gear  
1693586 Express, 14.5HP Gear (Export)  
1693666 Express, 14.5HP Gear (Export)  
1693732 Express, 14.5HP Gear (Export)

**NOTE:** Unless noted otherwise,  
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specification chart.



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- 1693586 Express, 14.5HP Gear (Export)
- 1693666 Express, 14.5HP Gear (Export)
- 1693732 Express, 14.5HP Gear (Export)

**REFERENCE: Service Parts — Peerless Model MST 205-515A Transaxle**

REF NO.	PART NO.	QTY.	DESCRIPTION
1	772144	1	Transaxle Cover
2	780086A	2	Needle Bearing 5/8" ID
3	770128	1	Transaxle Case
4	776395	1	Countershaft
5	776409	1	Output Shaft
6	778364	1	Spur Gear (38 teeth)
6A	778365	1	Spur Gear (15 teeth-steel)
7	778330	1	Spur Gear (11 teeth-steel)
8	792136A	2	Shift Key
9	784352	1	Shift Collar
10	784378	1	Shift Rod & Fork
11	778334	1	Bevel Gear (30 teeth)
12	778309	1	Input Bevel Pinion (13 teeth)
13	778327	2	Bevel Gear (16 teeth-steel)(Incl. 14)
14	778327	2	Bevel Gear (16 teeth-steel)(Incl. 13)
15	778312A	1	Ring Gear (43 teeth)
17	786139	1	Drive Pin
18	786102	1	Spacer
20	792077	1	Ball 5/16" dia
21	792078	1	Set Screw 3/8-16 x 3/8"
22	792079	1	Spring
25	792073A	16	Screw 1/4-20 x 1-1/4"
25A	792177	2	Screw 1/4-20 X 1-3/8"
26	792125	4	Retaining Ring (pkg of 2)
27	792035	1	Retaining Ring
28	788040	1	Retaining Ring
29	780072	4	Washer
29A	780160	1	Washer
29B	780165	2	Thrust Washer
30	780108	4	Washer
31	780001	2	Washer (.056 wide) (USE AS NEEDED)
31A	780195	2	Flat Washer (.062 wide)
32	788083	1	Oil Seal 5/8"
34	780194	2	Bushing
35	780193	2	Flanged Bushing
35A	780197	2	Flanged Bushing 3/4"
36	790075	1	Brake Disk
37	790007	1	Brake Pad Plate
38	799021	2	Brake Pad (pkg of 2)
39	786026	2	Dowel Pin
40	792076A	1	Washer
41	790019	1	Brake Lever
42	792073A	1	Screw 1/4-20 x 1-1/4"
42A	792085A	1	Screw 1/4-20 x 2-1/4"
43	792075	1	Locknut 5/16-24
44	790025	1	Brake Pad Holder
45	786066	1	Spacer
46	786086	1	Brake Lever Bracket
47	774942	1	Axle (12-7/32" long)
48	774869	1	Axle (16-13/16" long)
49	778356	1	Spur Gear (29 teeth-steel)

**Footnotes:**

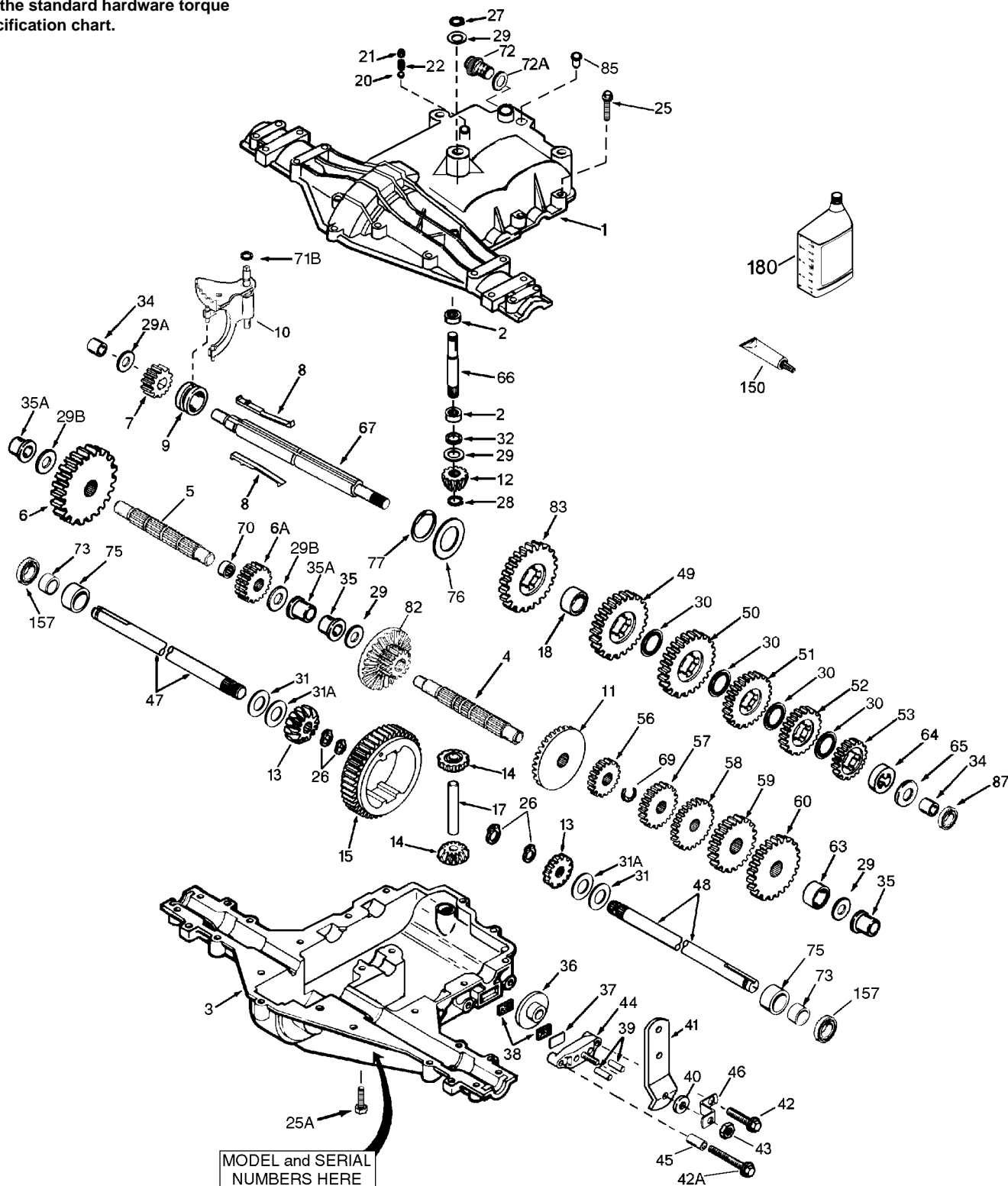
Peerless transmission parts must be ordered through your local Tecumseh/Peerless distributor.

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1693732 Express, 14.5HP Gear (Export)

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- 1693586 Express, 14.5HP Gear (Export)
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- 1693732 Express, 14.5HP Gear (Export)

**REFERENCE: Service Parts — Peerless Model MST 205-515A Transaxle**

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REF NO.	PART NO.	QTY.	DESCRIPTION
50	778354	1	Spur Gear (23 teeth-steel)
51	778352	1	Spur Gear (19 teeth-steel)
52	778350	1	Spur Gear (16 teeth-steel)
53	778346	1	Spur Gear (15 teeth-steel)
56	778355	1	Spur Gear (11 teeth-steel)
57	778353	1	Spur Gear (17 teeth-steel)
58	778351	1	Spur Gear (21 teeth-steel)
59	778349	1	Spur Gear (24 teeth-steel)
60	778345	1	Spur Gear (25 teeth)
63	786071	1	Countershaft Spacer 1-1/8" x 3/8"
64	786072	1	Brake Shaft Spacer 1-3/8" X 3/8"
65	780189	1	Washer
66	776394	1	Input Shaft
67	776396	1	Shifter & Brake Shaft
69	792170	1	Retaining Ring
70	786178	1	Spacer
71B	788092	1	"O" Ring
72A	788091	1	"O" Ring
72	792165	1	Threaded Plug 9/16-18
73	780140	2	Needle Bearing 3/4"
75	786084	2	Sleeve .999 ID
76	780090	1	Washer
77	788078A	1	Inverted Retaining Ring
82	778333	1	Bevel & Spur Gear (30 & 13 teeth)
83	778338	1	Spur Gear (27 teeth)
85	792154	1	Oil Fill Plug
87	788089	1	Oil Seal 9/16"
150	788093	1	Liquid Gasket RTV Silicone
157	788088	2	Oil Seal 3/4"
180	730229A	1	Gear Oil 80W90

**Footnotes:**

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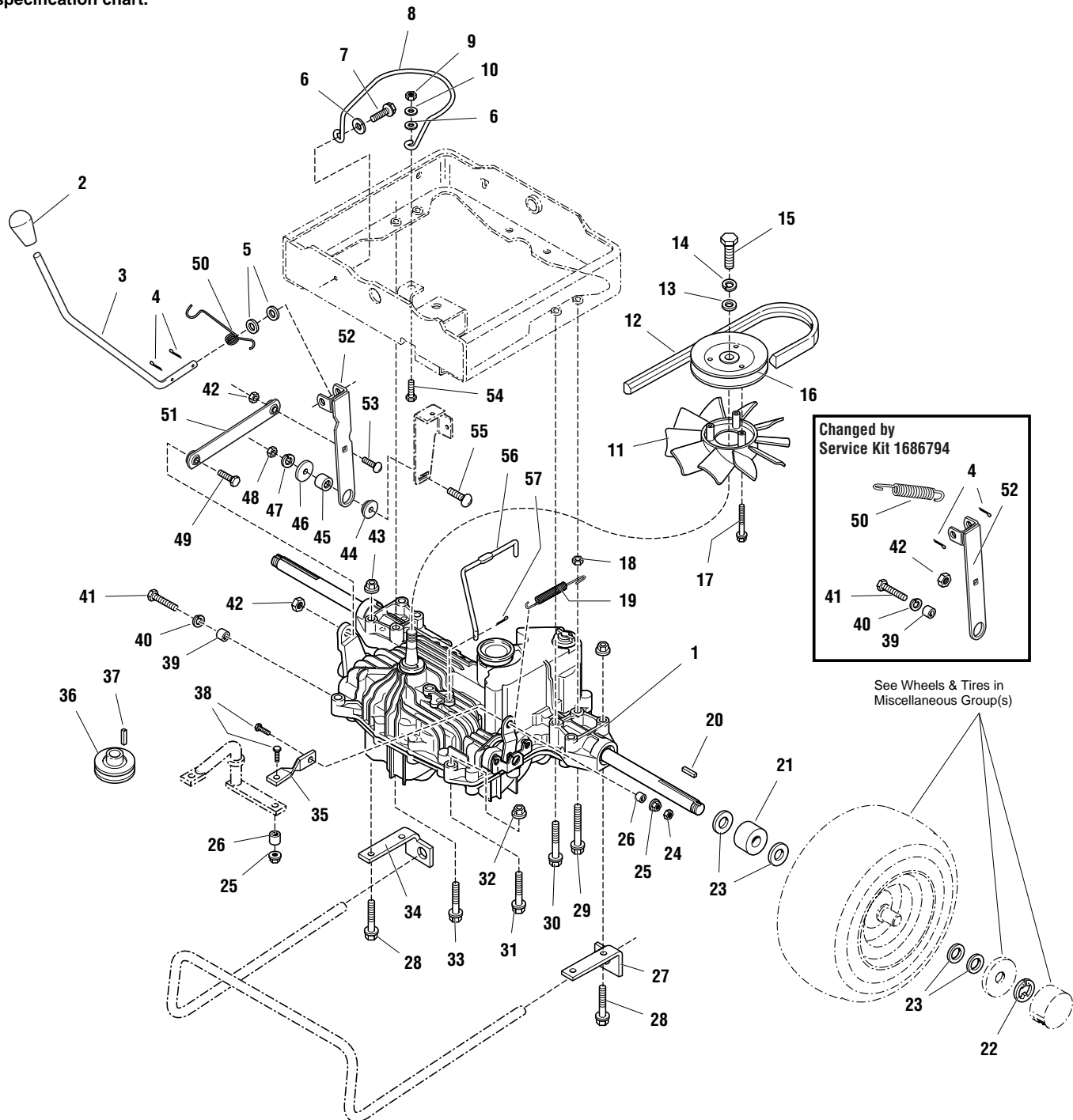
**The above parts group applies to the following Mfg. Nos.:**

1693452 Express, 14.5HP Gear  
1693586 Express, 14.5HP Gear (Export)  
1693666 Express, 14.5HP Gear (Export)  
1693732 Express, 14.5HP Gear (Export)

# Transmission Drive & Carrier Group — Tuff-Torq Model K51

985472

**NOTE:** Unless noted otherwise,  
use the standard hardware torque  
specification chart.



## The above parts group applies to the following Mfg. Nos.:

1693458	Express, 15.5HP Hydro	1693525	Express, 17HP Hydro
1693589	Express, 15.5HP Hydro (Export)	1693641	Express, 17HP Hydro (Export)
1693668	Express, 15.5HP Hydro (Export)	1693670	Express, 17HP Hydro (Export)
1693734	Express, 15.5HP Hydro (Export)	1693736	Express, 17HP Hydro (Export)



**Transmission Drive & Carrier Group — Tuff-Torq Model K51**

REF NO.	PART NO.	QTY.	DESCRIPTION
1	1719735	1	TRANSMISSION ASSEMBLY
2	1713843	1	KNOB, Plastic, Gear Shift
3	1719469	1	ROD, Shift
4	1918448	2	PIN, Cotter, 3/32 x 1
5	1960027	2	WASHER, 1/2
6	1919326	2	WASHER, Plain, 5/16
7	1960541	1	CAPSCREW, Taptite Hex Washer Hd, 5/16-18 x 3/4
8	1717292	1	GUIDE, Belt
9	1917372	1	NUT, Hex, Full, 5/16-18
10	1917356	1	LOCKWASHER, 5/16
11	1717425	1	FAN
12	1717397	1	BELT, Drive
13	1960353	1	WASHER, 1/4
14	1916964	1	LOCKWASHER, 1/4
15	1960613	1	CAPSCREW, Hex Hd, M06 - 1.00 x 30mm
16	1719902	1	PULLEY & HUB ASSEMBLY
17	1930810	3	CAPSCREW, Taptite Hex Washer Hd, 1/4-20 x 1-1/2
18	1928698	1	JAM NUT, Top Lock, 5/16-18
19	106681	1	SPRING, Brake Return
20	1717749	2	KEY
21	1717451	2	SPACER (Gear Models)
22	927794	2	E-RING (Gear Models)
23	960202	8	WASHER, 3/4 (Gear Models)
24	1923358	1	LOCK NUT, Center, 1/4-20
25	1930642	2	NUT, Hex Flange Lock, 1/4-20
26	1706495	2	SPACER
27	1717427	1	ANCHOR, Torsion Bar, L.H.
28	1960586	4	CAPSCREW, Whiz Lock Hex Hd, 5/16-18 x 2-1/2
29	960584	1	CAPSCREW, Taptite Hex Washer Hd, 5/16-18 x 3-1/2
30	960583	1	CAPSCREW, Taptite Hex Washer Hd, 5/16-18 x 3
31	1960585	1	CAPSCREW, Whiz Lock Hex Hd, 5/16-18 x 1-1/4
32	1927557	1	NUT, Hex, Flange Whiz Lock, 5/16-18
33	960551	2	CAPSCREW, Taptite Hex Washer Hd, 5/16-18 x 2-1/2
34	1717428	1	ANCHOR, Torsion Bar, R.H.
35	1717737	1	BRAKE LINK
36	1717452	1	PULLEY ASSEMBLY, Engine PTO (Hydro Models)
37	171241	1	KEY, PTO Pulley (Hydro Models)
38	1921960	2	CAPSCREW, Hex Hd, 1/4-20 x 1
39	1720675	1	SPACER
40	1918199	1	LOCKWASHER, Spring, 7/16
41	1950036	1	CAPSCREW, Hex Hd, M10-1 1/2 x 25MM
42	1919438	2	NUT, Hex Nylon Lock, 5/16-18
43	1931277	4	NUT, Hex Flange Whiz-Lock, 5/16-18
44	1960534	2	WASHER, 3/8
45	108717	1	SPACER
46	1924356	1	WASHER, 3/8

**Footnotes:**

\* Replaced by Service Kit 1686794.

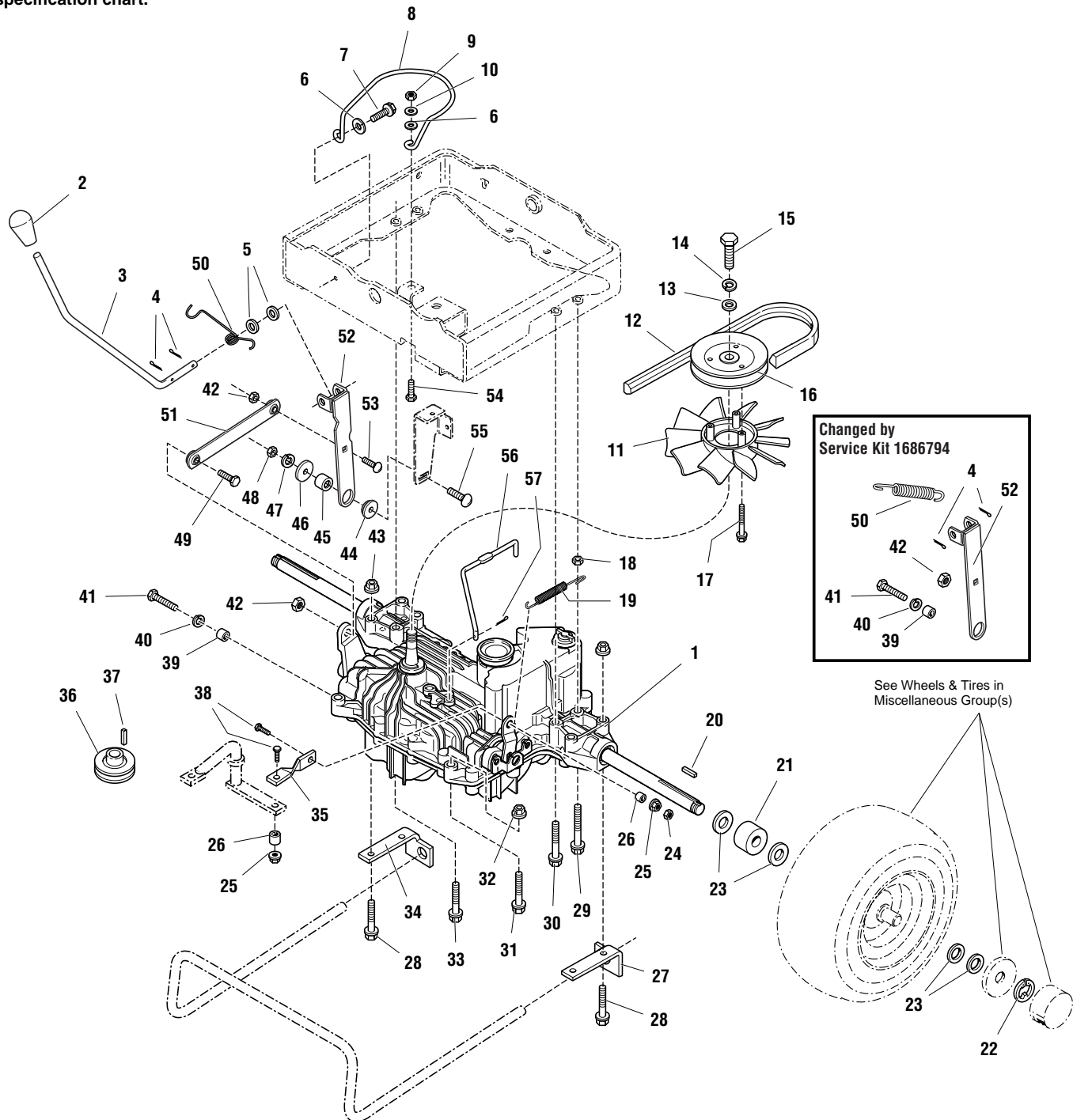
**The above parts group applies to the following Mfg. Nos.:**

1693458	Express, 15.5HP Hydro	1693525	Express, 17HP Hydro
1693589	Express, 15.5HP Hydro (Export)	1693641	Express, 17HP Hydro (Export)
1693668	Express, 15.5HP Hydro (Export)	1693670	Express, 17HP Hydro (Export)
1693734	Express, 15.5HP Hydro (Export)	1693736	Express, 17HP Hydro (Export)

# Transmission Drive & Carrier Group — Tuff-Torq Model K51

985472

**NOTE:** Unless noted otherwise,  
use the standard hardware torque  
specification chart.



## The above parts group applies to the following Mfg. Nos.:

1693458	Express, 15.5HP Hydro	1693525	Express, 17HP Hydro
1693589	Express, 15.5HP Hydro (Export)	1693641	Express, 17HP Hydro (Export)
1693668	Express, 15.5HP Hydro (Export)	1693670	Express, 17HP Hydro (Export)
1693734	Express, 15.5HP Hydro (Export)	1693736	Express, 17HP Hydro (Export)

**Transmission Drive & Carrier Group — Tuff-Torq Model K51**

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REF NO.	PART NO.	QTY.	DESCRIPTION
47	1916965	1	LOCKWASHER, 3/8
48	1916950	1	NUT, ESNA Hex Lock, 3/8-16
49	1921977	1	CAPSCREW, Hex Hd, 5/16-18 x 1-1/4
50	1678341*	1	SPRING, Return
50	1720700	1	SPRING, Torsion
51	1719728	1	LINK, Lower Shift
52	1719963*	1	LEVER & CLEVIS ASSEMBLY
52	1720681	1	LEVER & CLEVIS ASSEMBLY
53	1960223	1	CARRIAGE BOLT, 5/16-18 x 1-1/4
54	1921333	1	CAPSCREW, Hex Hd, 5/16-18 x 1
55	1960268	1	CARRIAGE BOLT, 3/8-16 x 1-1/4
56	1717442	1	ROD, Transmission Release
57	1918447	1	PIN, Cotter, 3/32 x 3/4

**Footnotes:**

\* Replaced by Service Kit 1686794.

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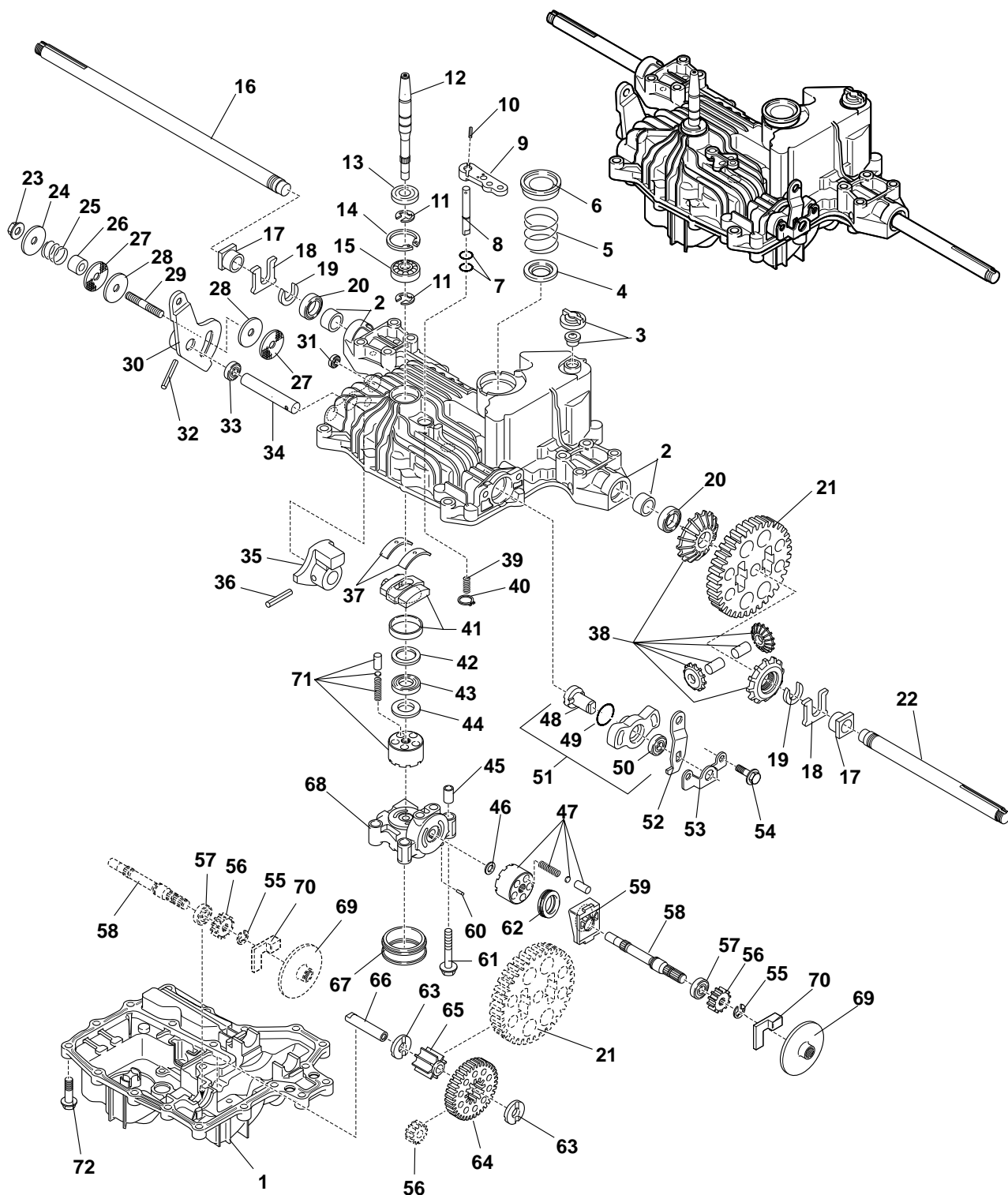
**The above parts group applies to the following Mfg. Nos.:**

1693458	Express, 15.5HP Hydro	1693525	Express, 17HP Hydro
1693589	Express, 15.5HP Hydro (Export)	1693641	Express, 17HP Hydro (Export)
1693668	Express, 15.5HP Hydro (Export)	1693670	Express, 17HP Hydro (Export)
1693734	Express, 15.5HP Hydro (Export)	1693736	Express, 17HP Hydro (Export)

## REFERENCE: SERVICE PARTS — Tuff Torq K51 Transaxle

TTK51

NOTE: Unless noted otherwise,  
use the standard hardware torque  
specification chart.



### The above parts group applies to the following Mfg. Nos.:

1693458	Express, 15.5HP Hydro	1693525	Express, 17HP Hydro
1693589	Express, 15.5HP Hydro (Export)	1693641	Express, 17HP Hydro (Export)
1693668	Express, 15.5HP Hydro (Export)	1693670	Express, 17HP Hydro (Export)
1693734	Express, 15.5HP Hydro (Export)	1693736	Express, 17HP Hydro (Export)

**REFERENCE: SERVICE PARTS — Tuff Torq K51 Transaxle**

REF NO.	PART NO.	QTY.	DESCRIPTION
1	1720416	1	LOWER HOUSING
2	1720420	1	UPPER HOUSING CMP.
3	1718052	1	VENT VALVE 15
4	1718053	1	FILTER 25
5	1718054	1	SPRING - FILTER
6	1718055	1	SEALING CAP 50
7	1708691	2	PACKING P10A
8	1720417	1	SHAFT - BYPASS
9	1720418	1	LEVER - BYPASS
10	1720421	1	PIN 3.0A*20
11	1718076	2	RING E15
12	1720424	1	PUMP SHAFT
13	1708651	1	SEAL TC153507
14	1708650	1	RING 35
15	1708673	1	BEARING 6202C3
16	1718109	1	AXLE SHAFT R
17	1718110	2	BUSHING 19*21
18	1718112	2	THRUST WASHER
19	1718113	2	RING 17
20	1718111	2	SEAL 19*32*8
21	1718102	1	FINAL GEAR
22	1720441	1	AXLE SHAFT L
23	1720437	1	LOCK NUT 10
24	1720431	1	WASHER 10*36*2.8
25	1720430	1	SPRING - FRICTION
26	1720429	1	COLLAR 10*22*14.5
27	1720432	2	WASHER 10*40*4
28	1720438	2	FRICTION PLATE CMP.
29	1720436	1	STUD 10*60
30	1720433	1	CONTROL LEVER
31	1720427	1	CAP, SEALING 18
32	1718100	1	PIN 6.0A*40
33	1718120	1	SEAL TC162606
34	1720434	1	CONTROL SHAFT
35	1720428	1	CONTROL ARM A
36	1720435	1	PIN 6.0A*32
37	1718089	2	THRUST BEARING
38	1718103	1	DIFF. GEAR KIT
39	1720419	1	SPRING 8
40	1718061	1	RING 10
41	1720426	1	SWASH PLATE CMP.
42	1718088	1	THRUST PLATE B
43	1718086	1	BEARING K81105
44	1718087	1	THRUST PLATE A
45	1718069	2	KNOCK PIN 12*22
46	1718084	1	WASHER 12*24*1
47	1718079	1	CYLINDER BLOCK CMP.
48	1718117	1	SHAFT-BRAKE
49	1718121	1	PACKING P29
50	1718090	1	SEAL TC162606
51	1720442	1	BRAKE CAM KIT

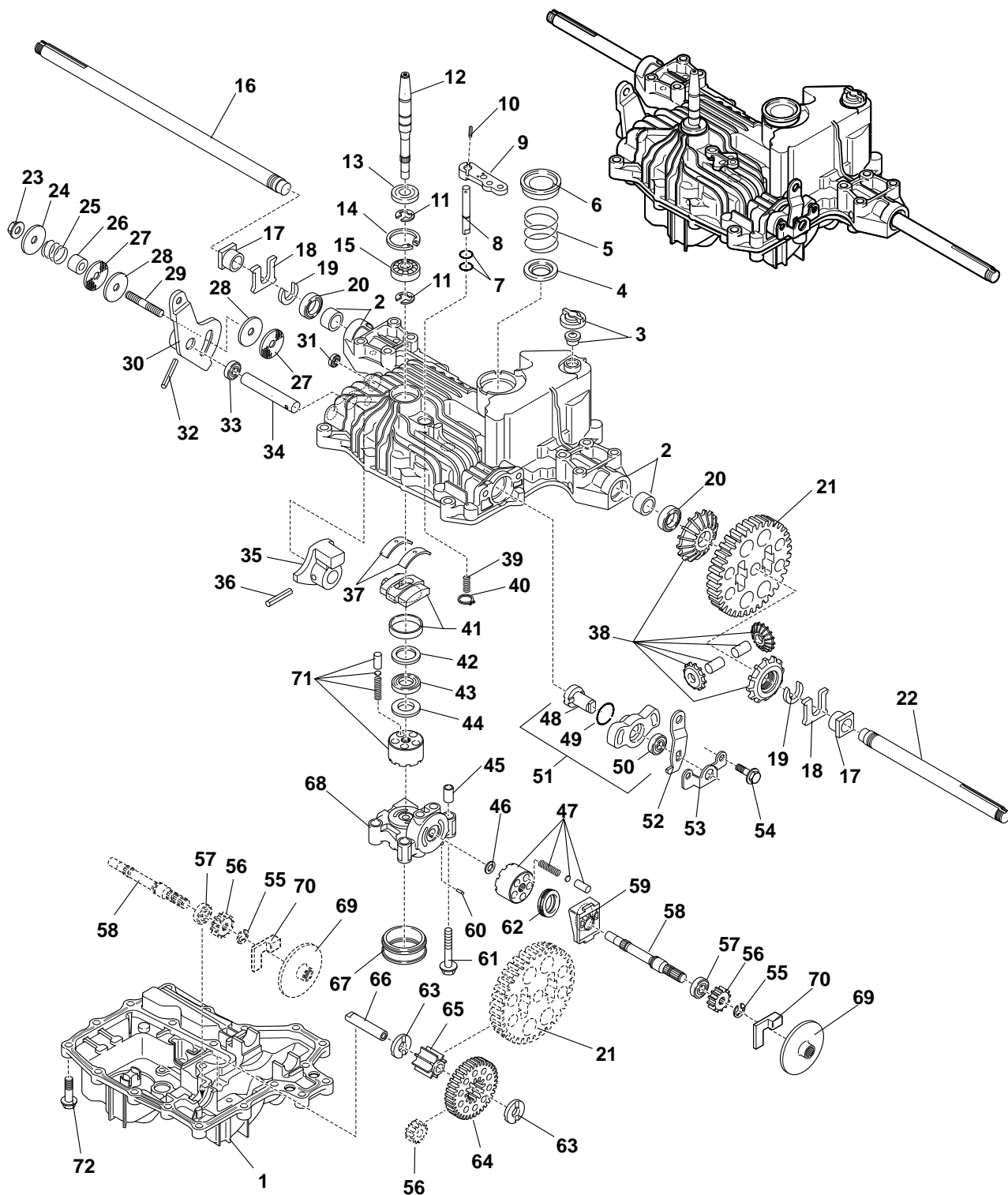
**Footnotes:****The above parts group applies to the following Mfg. Nos.:**

1693458	Express, 15.5HP Hydro	1693525	Express, 17HP Hydro
1693589	Express, 15.5HP Hydro (Export)	1693641	Express, 17HP Hydro (Export)
1693668	Express, 15.5HP Hydro (Export)	1693670	Express, 17HP Hydro (Export)
1693734	Express, 15.5HP Hydro (Export)	1693736	Express, 17HP Hydro (Export)

## REFERENCE: SERVICE PARTS — Tuff Torq K51 Transaxle

TTK51

NOTE: Unless noted otherwise,  
use the standard hardware torque  
specification chart.



### The above parts group applies to the following Mfg. Nos.:

1693458	Express, 15.5HP Hydro	1693525	Express, 17HP Hydro
1693589	Express, 15.5HP Hydro (Export)	1693641	Express, 17HP Hydro (Export)
1693668	Express, 15.5HP Hydro (Export)	1693670	Express, 17HP Hydro (Export)
1693734	Express, 15.5HP Hydro (Export)	1693736	Express, 17HP Hydro (Export)

**REFERENCE: SERVICE PARTS — Tuff Torq K51 Transaxle**

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REF NO.	PART NO.	QTY.	DESCRIPTION
52	1718116	1	ARM-BRAKE
53	1718119	1	PLATE-BRAKE
54	1718122	2	BOLT 8*30
55	1718081	1	E-RING
56	1720425	1	MOTOR GEAR
57	1718083	1	BEARING 6202UC3
58	1718080	1	MOTOR SHAFT
59	1718077	1	HOUSING
60	1718070	1	PIN 3*9.8
61	1720422	3	BOLT 10*60
62	1718078	1	BEARING 51106
63	1720439	2	WASHER 12*32*3.2
64	1720440	1	REDUCTION GEAR
65	1718107	1	FINAL PINION
66	1718104	1	REDUCTION SHAFT
67	1718071	1	FILTER
68	1718068	1	CENTER CASE B CMP.
69	1718114	1	DISK-BRAKE
70	1718115	1	SHOE-BRAKE
71	1720423	1	CYLINDER BLOCK CMP.
72	1707789	20	TAPPING SCREW 8*30

**Footnotes:**

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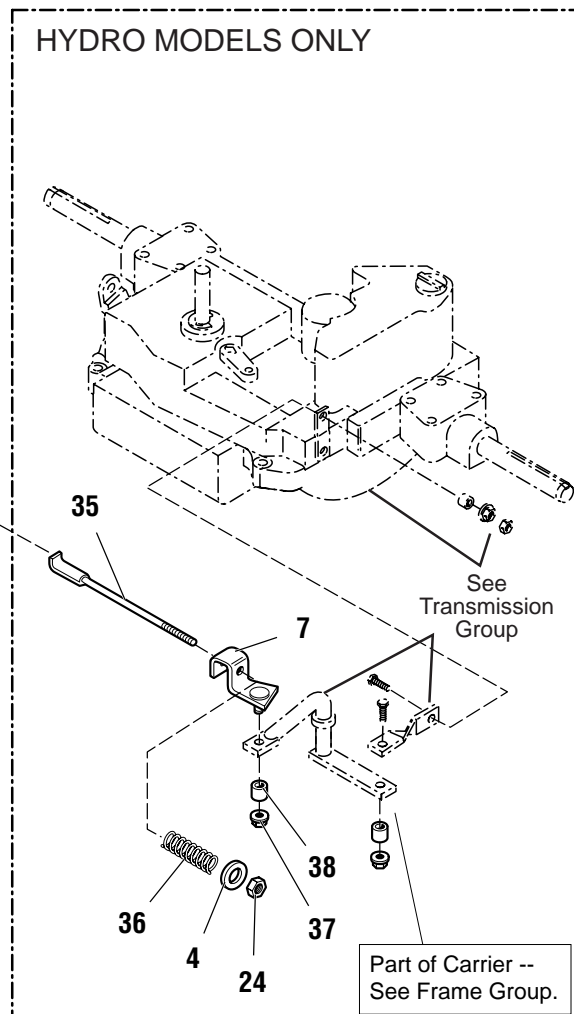
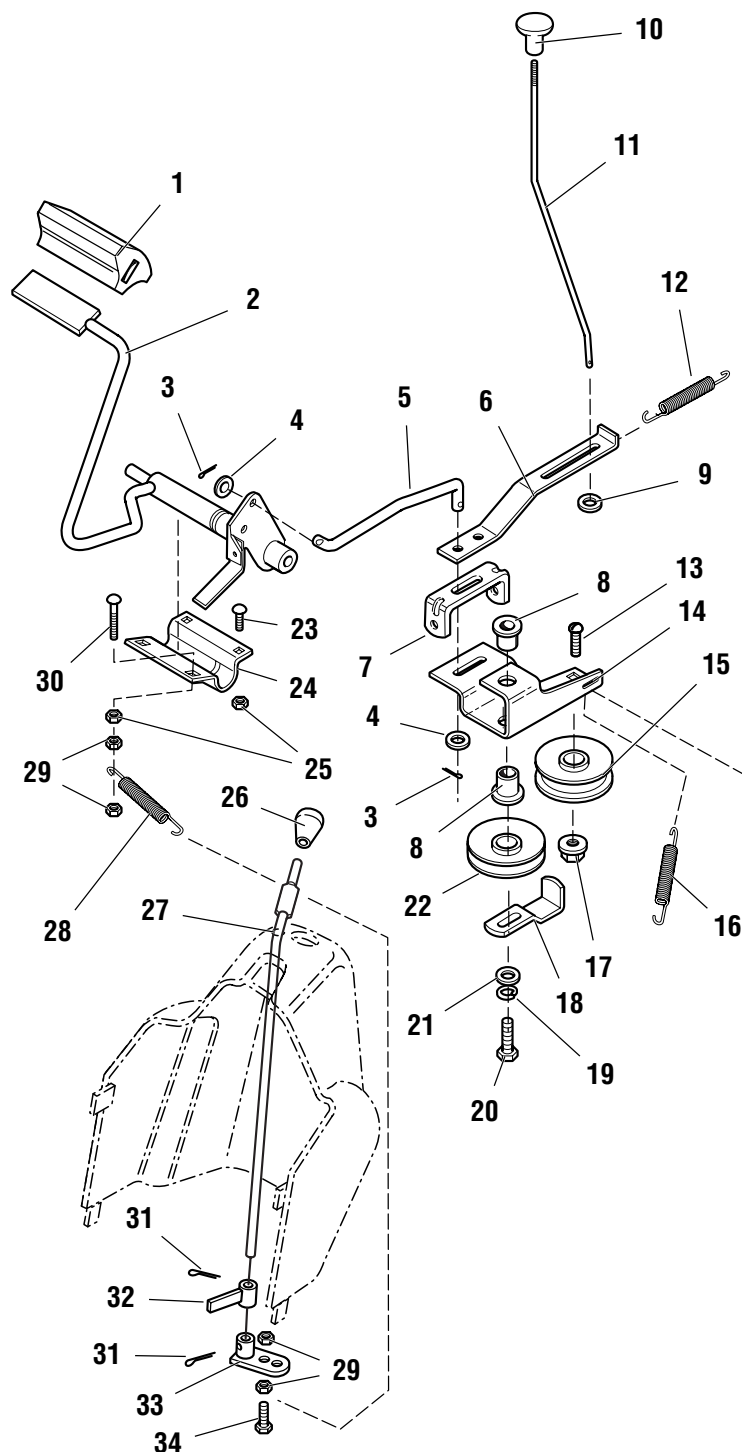
**The above parts group applies to the following Mfg. Nos.:**

1693458	Express, 15.5HP Hydro	1693525	Express, 17HP Hydro
1693589	Express, 15.5HP Hydro (Export)	1693641	Express, 17HP Hydro (Export)
1693668	Express, 15.5HP Hydro (Export)	1693670	Express, 17HP Hydro (Export)
1693734	Express, 15.5HP Hydro (Export)	1693736	Express, 17HP Hydro (Export)

## Controls & Linkage Group

985473\_985492

NOTE: Unless noted otherwise,  
use the standard hardware torque  
specification chart.



### The above parts group applies to the following Mfg. Nos.:

1693452	Express, 14.5HP Gear	1693458	Express, 15.5HP Hydro	1693525	Express, 17HP Hydro
1693586	Express, 14.5HP Gear (Export)	1693589	Express, 15.5HP Hydro (Export)	1693641	Express, 17HP Hydro (Export)
1693666	Express, 14.5HP Gear (Export)	1693668	Express, 15.5HP Hydro (Export)	1693670	Express, 17HP Hydro (Export)
1693732	Express, 14.5HP Gear (Export)	1693734	Express, 15.5HP Hydro (Export)	1693736	Express, 17HP Hydro (Export)



## Controls & Linkage Group

REF NO.	PART NO.	QTY.	DESCRIPTION
1	1704849	1	PAD, Brake
2	1717994	1	FOOT PEDAL ASSEMBLY
3	1918447	2	PIN, Cotter, 3/32 x 3/4 (Gear Models Only)
3	1918451	2	PIN, Cotter, 1/8 x 3/4 (Hydro Models Only)
4	1919326	2	WASHER, Plain, 5/16
5	1713432	1	ROD, Clutch (Gear Models Only)
5	1717115	1	ROD, Clutch (Hydro Models Only)
6	1717439	1	LEVER, Parking Brake
7	1713785	1	GUIDE, Brake Rod
7	1717728	1	GUIDE, Brake Rod (Hydro Models Only)
8	1663114	2	BUSHING, Plastic, 5/8
9	1921319	1	WASHER, Plain, 1/4
10	1713855	1	KNOB, Plastic, Parking Brake
11	1719470	1	ROD, Parking Brake
12	165068	1	SPRING, Parking Brake
13	1931353	1	CARRIAGE BOLT, 3/8-16 x 1-3/4
14	1717438	1	BRACKET, Idler
15	1707289	1	PULLEY, Backside
16	1719590	1	SPRING, Idler
17	1928352	1	NUT, Hex Flange Whiz Lock, 3/8-16
18	1708352	1	GUARD
19	1916965	1	LOCKWASHER, 3/8
20	1921971	1	CAPSCREW, Hex Hd, 3/8-16 x 1-3/4
21	1924940	1	WASHER, Plain, 3/8
22	1721134	1	PULLEY, Idler, V
23	1931333	3	CARRIAGE BOLT, 5/16-18 x 3/4
24	1713784	1	CLAMP, Tube
25	1919438	4	NUT, Hex Nylon Lock, 5/16-18
26	1713843	1	KNOB, Plastic, Gear Shift
27	1719532	1	SHAFT, PTO Clutch
28	1707002	1	SPRING, Extension
29	1923362	4	LOCKNUT, 5/16-18
30	1960555	1	CARRIAGE BOLT, 5/16-18 x 1 1/2
31	1916001	2	ROLL PIN
32	1719422	1	HUB & BAR ASSEMBLY, PTO Clutch
33	1719534	1	ARM & HUB ASSEMBLY, PTO Clutch
34	1921333	1	CAPSCREW, 5/16-18 x 1
35	1717440	1	ROD, Brake (Hydro Models Only)
36	1708360	1	SPRING (Hydro Models Only)
37	1935048	1	NUT, Hex Flange Lock, 5/16-18 (Hydro Models Only)
38	1703900	1	SPACER (Hydro Models Only)

### Footnotes:

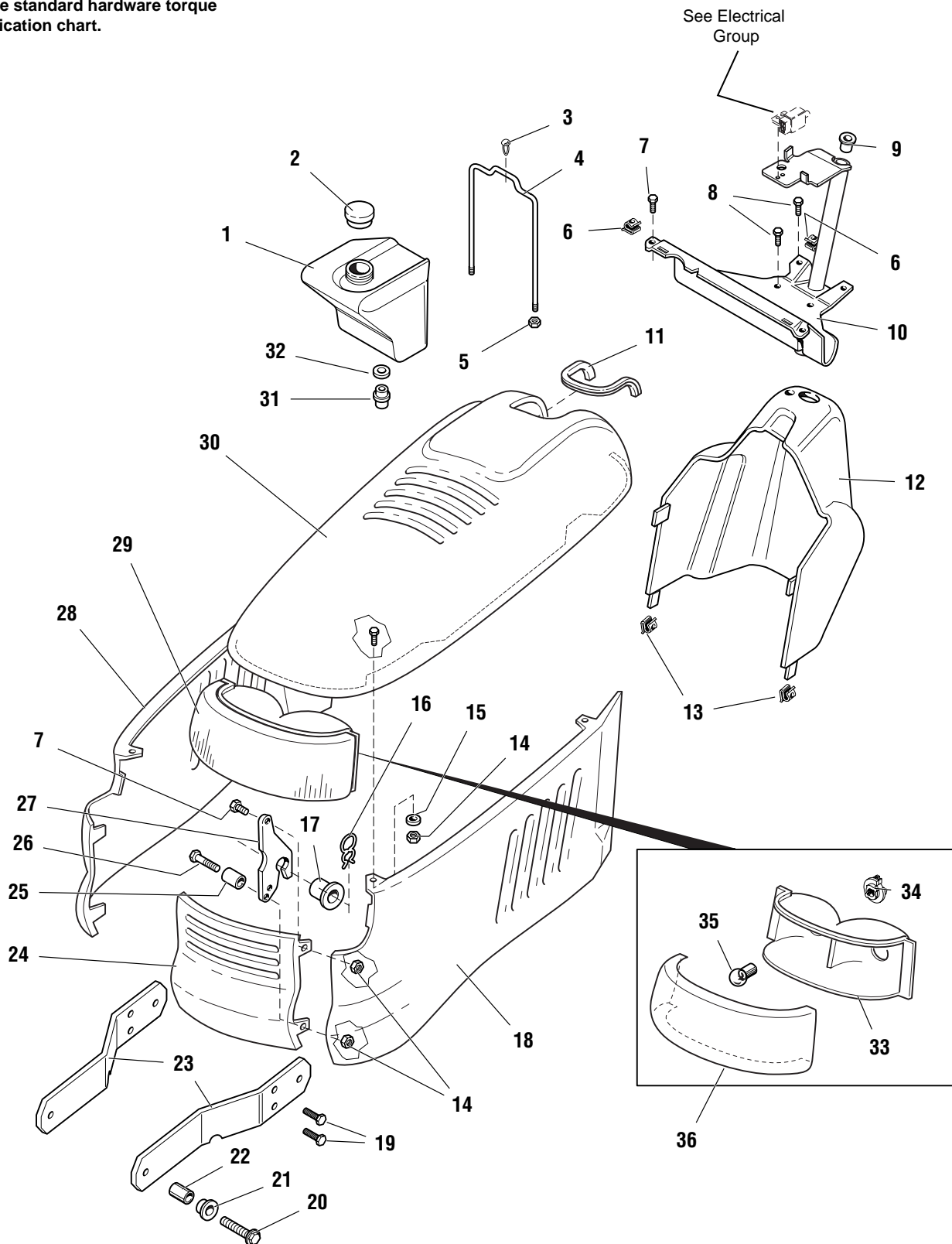
#### The above parts group applies to the following Mfg. Nos.:

1693452	Express, 14.5HP Gear	1693458	Express, 15.5HP Hydro	1693525	Express, 17HP Hydro
1693586	Express, 14.5HP Gear (Export)	1693589	Express, 15.5HP Hydro (Export)	1693641	Express, 17HP Hydro (Export)
1693666	Express, 14.5HP Gear (Export)	1693668	Express, 15.5HP Hydro (Export)	1693670	Express, 17HP Hydro (Export)
1693732	Express, 14.5HP Gear (Export)	1693734	Express, 15.5HP Hydro (Export)	1693736	Express, 17HP Hydro (Export)

## Hood, Grille & Dash Group

985475

**NOTE:** Unless noted otherwise,  
use the standard hardware torque  
specification chart.



### The above parts group applies to the following Mfg. Nos.:

1693452	Express, 14.5HP Gear	1693458	Express, 15.5HP Hydro	1693525	Express, 17HP Hydro
1693586	Express, 14.5HP Gear (Export)	1693589	Express, 15.5HP Hydro (Export)	1693641	Express, 17HP Hydro (Export)
1693666	Express, 14.5HP Gear (Export)	1693668	Express, 15.5HP Hydro (Export)	1693670	Express, 17HP Hydro (Export)
1693732	Express, 14.5HP Gear (Export)	1693734	Express, 15.5HP Hydro (Export)	1693736	Express, 17HP Hydro (Export)

## ***Hood, Grille & Dash Group***

REF NO.	PART NO.	QTY.	DESCRIPTION
1	1714472	1	FUEL TANK
2	1714020	1	CAP, Fuel Tank
3	1704351	1	FASTENER, Plastic, Ratchet
4	1715044	1	STRAP
5	1919438	2	NUT, Hex Nylon Lock, 5/16-18
6	1960368	3	PAL NUT, 1/4-20
7	1960295	7	CAPSCREW, Whiz Lock Hex Hd, 1/4-20 x 5/8
8	1925003	4	CAPSCREW, Taptite Hex Washer Hd, 1/4-20 x 1/2
9	176440	1	BUSHING
10	1721167	1	BULKHEAD & TUBE ASSEMBLY
11	1661348	1	MOLDING, Flexible Plastic, 1000 ft. roll
12	1719486	1	DASHBOARD
13	172434	2	CLIP, Cable
14	1920397	9	NUT, Hex, Nylon Lock, 1/4-20
15	1921319	2	WASHER, Plain, 1/4
16	1704628	2	CLIP, Pivot Spacer Retaining
17	1704626	2	SPACER, Plastic, Hood Pivot
18	41719484	1	PANEL, Express Hood, L.H., with louvers (Cardinal Red)
19	1960541	4	CAPSCREW, Taptite Hex Washer Hd, 5/16-18 x 3/4
20	1931202	2	CAPSCREW, Hex Washer Hd, Taptite, 5/16 - 18 x 1-1/4
21	1705248	2	SPACER, Steel, Retaining Clip Groove
22	1705249	2	SPACER, Steel, Hood Pivot
23	1719447	2	SUPPORT, Hood
24	41714352	1	GRILLE, (Cardinal Red)
25	1710703	2	SPACER
26	1922837	2	CAPSCREW, Hex Hd, 1/4-20 x 1-1/2
27	1714875	2	HINGE, Hood
28	41719485	1	PANEL, Express Hood, R.H., with louvers (Cardinal Red)
29	1719451	1	HEADLIGHT ASSEMBLY
30	41719483	1	HOOD, Express, with louvers (Cardinal Red)
31	1674231	1	FITTING, Fuel
32	1654930	1	GROMMET, Fuel Fitting
33	1719452	1	HEADLIGHT BEZEL HOUSING
34	1714787	2	SOCKET, Light Bulb
35	1677371	2	BULB, #1156 12.8V, Headlight
36	1714785	1	HEADLIGHT LENS

### **Footnotes:**

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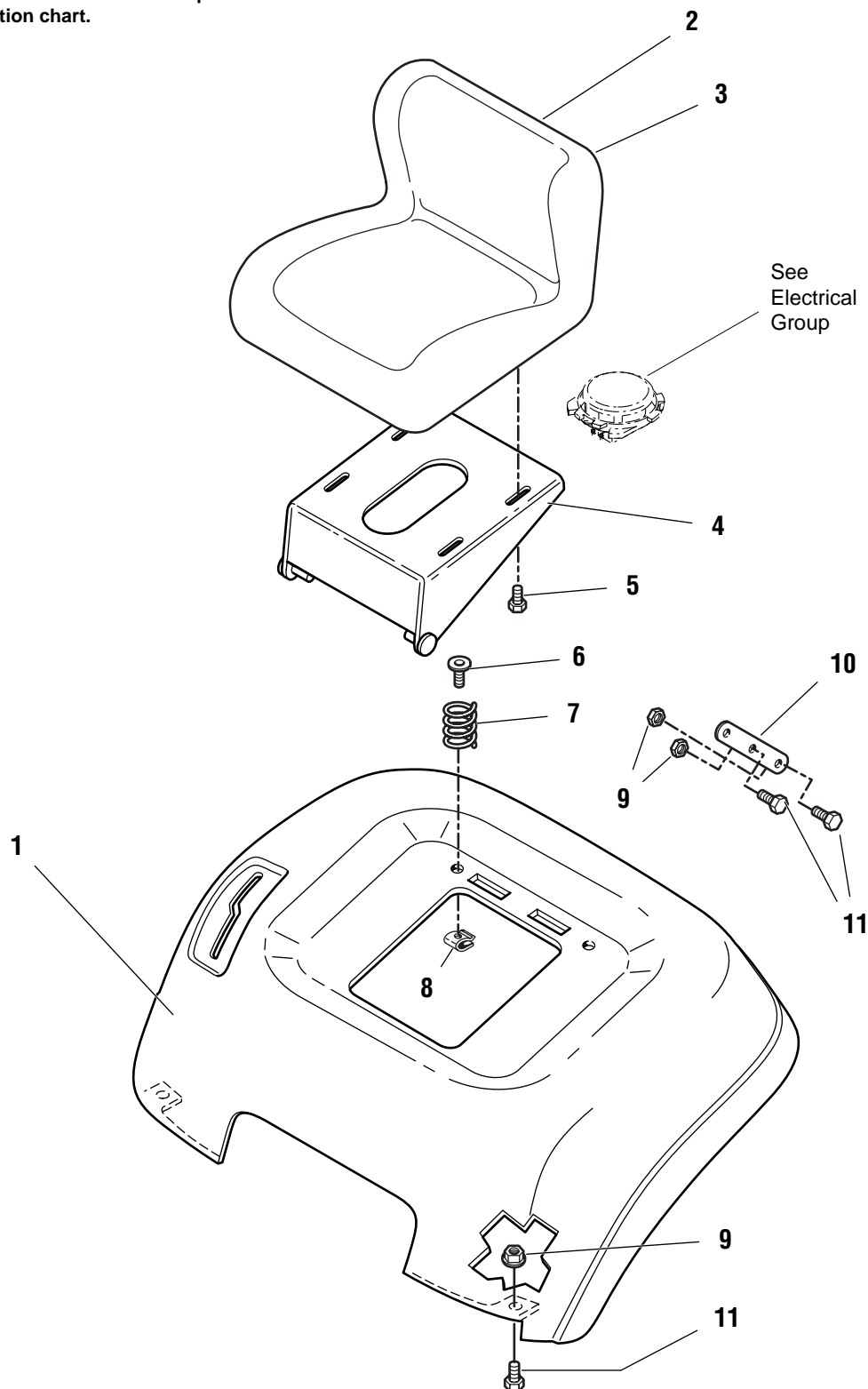
#### **The above parts group applies to the following Mfg. Nos.:**

1693452	Express, 14.5HP Gear	1693458	Express, 15.5HP Hydro	1693525	Express, 17HP Hydro
1693586	Express, 14.5HP Gear (Export)	1693589	Express, 15.5HP Hydro (Export)	1693641	Express, 17HP Hydro (Export)
1693666	Express, 14.5HP Gear (Export)	1693668	Express, 15.5HP Hydro (Export)	1693670	Express, 17HP Hydro (Export)
1693732	Express, 14.5HP Gear (Export)	1693734	Express, 15.5HP Hydro (Export)	1693736	Express, 17HP Hydro (Export)

## Seat & Seat Deck Group

985476

**NOTE:** Unless noted otherwise, use the standard hardware torque specification chart.



### The above parts group applies to the following Mfg. Nos.:

1693452	Express, 14.5HP Gear	1693458	Express, 15.5HP Hydro	1693525	Express, 17HP Hydro
1693586	Express, 14.5HP Gear (Export)	1693589	Express, 15.5HP Hydro (Export)	1693641	Express, 17HP Hydro (Export)
1693666	Express, 14.5HP Gear (Export)	1693668	Express, 15.5HP Hydro (Export)	1693670	Express, 17HP Hydro (Export)
1693732	Express, 14.5HP Gear (Export)	1693734	Express, 15.5HP Hydro (Export)	1693736	Express, 17HP Hydro (Export)

## ***Seat & Seat Deck Group***

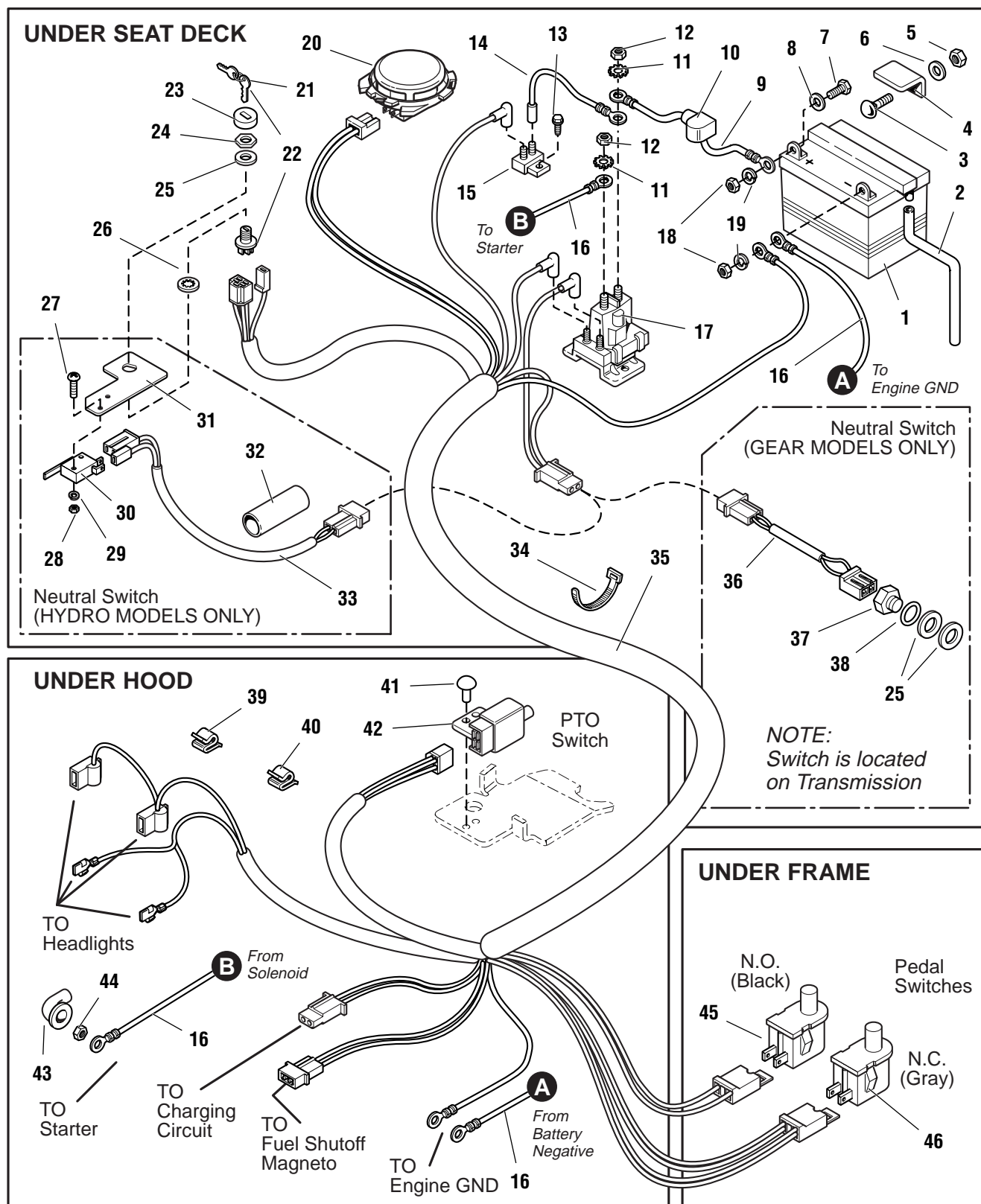
REF NO.	PART NO.	QTY.	DESCRIPTION
1	41721440	1	SEAT DECK, (Cardinal Red)
2	1713839	1	SEAT, Black
3	1714482	1	SEAT, Cover
4	1719774	1	SUPPORT & PINS ASSEMBLY
5	1931648	6	CAPSCREW, Whiz Lock Hex Hd, 5/16-18 x 1/2
6	1960486	2	CAPSCREW, Flat Hd, Hex Socket, 5/16 - 18 x 1-1/4
7	1708360	2	SPRING
8	1935255	2	SPEED NUT, Tinnerman Lug Type, 5/16-18
9	1931277	6	NUT, Hex Flange Whiz-Lock, 5/16-18
10	1713758	2	BAR, Seat Pivot
11	1930591	6	CAPSCREW, Whiz Lock Hex Hd, 5/16-18 x 3/4

### **Footnotes:**

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#### **The above parts group applies to the following Mfg. Nos.:**

1693452	Express, 14.5HP Gear	1693458	Express, 15.5HP Hydro	1693525	Express, 17HP Hydro
1693586	Express, 14.5HP Gear (Export)	1693589	Express, 15.5HP Hydro (Export)	1693641	Express, 17HP Hydro (Export)
1693666	Express, 14.5HP Gear (Export)	1693668	Express, 15.5HP Hydro (Export)	1693670	Express, 17HP Hydro (Export)
1693732	Express, 14.5HP Gear (Export)	1693734	Express, 15.5HP Hydro (Export)	1693736	Express, 17HP Hydro (Export)



The above parts group applies to the following Mfg. Nos.:

1693452	Express, 14.5HP Gear	1693458	Express, 15.5HP Hydro	1693525	Express, 17HP Hydro
1693586	Express, 14.5HP Gear (Export)	1693589	Express, 15.5HP Hydro (Export)	1693641	Express, 17HP Hydro (Export)
1693666	Express, 14.5HP Gear (Export)	1693668	Express, 15.5HP Hydro (Export)	1693670	Express, 17HP Hydro (Export)
1693732	Express, 14.5HP Gear (Export)	1693734	Express, 15.5HP Hydro (Export)	1693736	Express, 17HP Hydro (Export)

## Electrical Group

REF NO.	PART NO.	QTY.	DESCRIPTION
1	1704443	1	BATTERY
2	1704583	1	HOSE, Drain
3	1931333	1	CARRIAGE BOLT, 5/16-18 x 3/4
4	1713756	1	CLAMP, Battery
5	1919438	1	NUT, Hex Nylon Lock, 5/16-18
6	1919326	1	WASHER, Plain, 5/16
7	1923341	2	CAPSCREW, Hex Hd., 1/4-20 x 3/4
8	1921319	2	WASHER, Plain, 1/4
9	1716549	1	CABLE, # 6 x 10 Long, with 2 Ring Terminals
10	1677296	1	BOOT, Insulator
11	920426	2	LOCKWASHER, External Tooth, 5/16
12	1920263	2	NUT, Hex, 5/16-24 NF
13	1927429	2	CAPSCREW, Taptite Hex Washer Hd, 1/4-20 x 5/8
14	1665237	1	WIRE ASSEMBLY
15	1665238	1	CIRCUIT BREAKER
16	1703484	2	CABLE, (Solenoid to Starter & Battery to Ground)
17	1700751	1	SOLENOID
18	1916622	2	NUT, Hex, 1/4-20
19	1916964	2	LOCKWASHER, 1/4
20	1718981	1	SWITCH, Seat
21	1717163	1	IGNITION KEY (Set of 2)
22	1716061	1	SWITCH, Ignition, 6-Pole (Includes Ref. 21, 23, 24, 25 & 26)
23	1717550	1	COVER, Ignition
24	1717549	1	NUT, Hex, Flange, 5/8-32
25	101025	3	WASHER, 5/8
26	1960547	1	LOCKWASHER, Internal Tooth, 5/8
27	1935031	2	CAPSCREW, Round Hd, Phillips #5 - 40 x 3/4
28	1931003	2	NUT, Hex Machine, #5-40 NC-2B (Hydro Models Only)
29	1930947	2	LOCKWASHER, Spring, 1/8 (Hydro Models Only)
30	1665586	1	SWITCH, Neutral Safety (Hydro Models Only)
31	1721441	1	PLATE, Neutral Switch (Hydro Models Only)
32	1661345	1	TUBE, Shrink
33	1719837	1	WIRE ASSEMBLY (Hydro Models Only)
34	925094	1	TIE-SELF LOCKING (Qty 2 on Gear Models)
35	1720510	1	HARNESS, Wiring
36	1715011	1	WIRE ASSEMBLY, Transmission (Gear Models Only)
37	1654634	1	SWITCH, Transmission
38	1715540	1	SEAL, O-Ring
39	172434	1	CLIP, Tinnerman
40	934683	2	CLIP, Wire
41	1675043	2	POP-RIVET
42	1717050	1	SWITCH, Neutral Start
43	122023	1	COVER, Terminal
44	1960294	1	NUT, Hex Flange, Whiz Lock, 1/4 - 20
45	1720411	1	SWITCH, Pedal, N.O., Black
46	1720401	1	SWITCH, Pedal, N.C., Gray

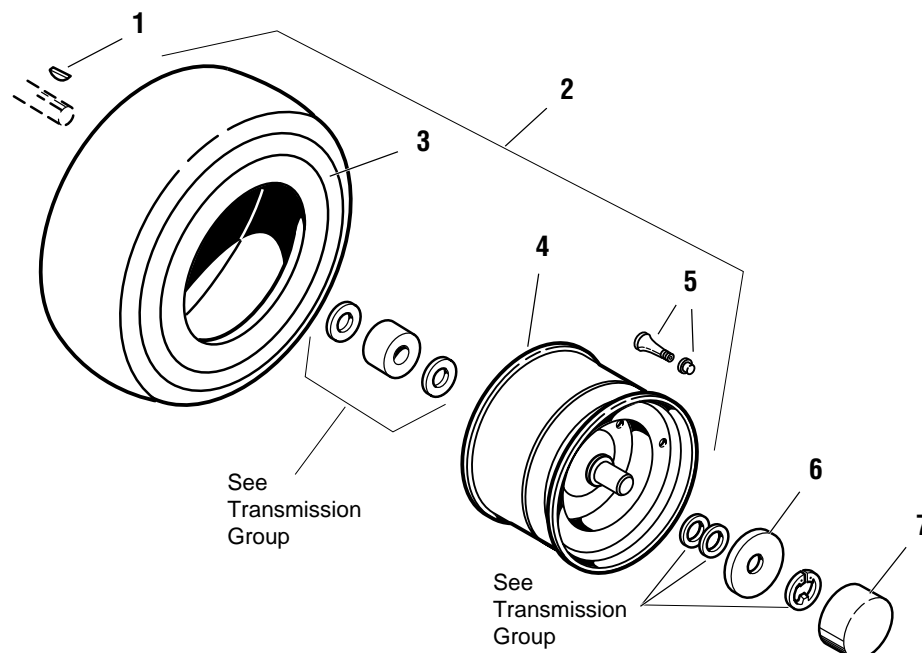
### Footnotes:

#### The above parts group applies to the following Mfg. Nos.:

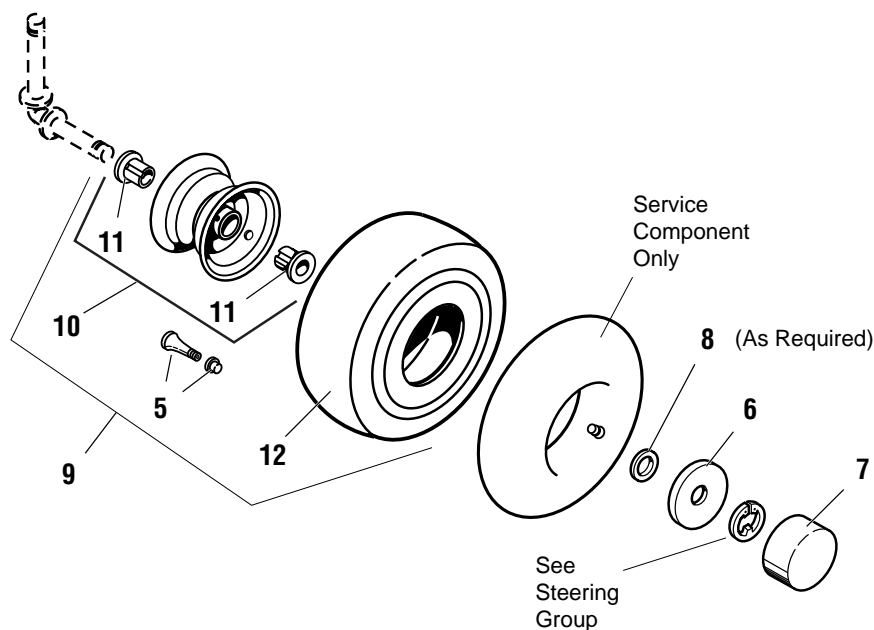
1693452	Express, 14.5HP Gear	1693458	Express, 15.5HP Hydro	1693525	Express, 17HP Hydro
1693586	Express, 14.5HP Gear (Export)	1693589	Express, 15.5HP Hydro (Export)	1693641	Express, 17HP Hydro (Export)
1693666	Express, 14.5HP Gear (Export)	1693668	Express, 15.5HP Hydro (Export)	1693670	Express, 17HP Hydro (Export)
1693732	Express, 14.5HP Gear (Export)	1693734	Express, 15.5HP Hydro (Export)	1693736	Express, 17HP Hydro (Export)

NOTE: Unless noted otherwise, use the standard hardware torque specification chart.

### REAR WHEELS & TIRES



### FRONT WHEELS & TIRES



The above parts group applies to the following Mfg. Nos.:

1693452	Express, 14.5HP Gear	1693458	Express, 15.5HP Hydro	1693525	Express, 17HP Hydro
1693586	Express, 14.5HP Gear (Export)	1693589	Express, 15.5HP Hydro (Export)	1693641	Express, 17HP Hydro (Export)
1693666	Express, 14.5HP Gear (Export)	1693668	Express, 15.5HP Hydro (Export)	1693670	Express, 17HP Hydro (Export)
1693732	Express, 14.5HP Gear (Export)	1693734	Express, 15.5HP Hydro (Export)	1693736	Express, 17HP Hydro (Export)



## Wheels & Tires Group

REF NO.	PART NO.	QTY.	DESCRIPTION
1	1717749	2	KEY
2	1719450	2	REAR WHEEL & TIRE ASSEMBLY (14.5HP & 15.5HP Models Only) (Includes Ref. 3, 4 & 5)
2	1719893	2	REAR WHEEL & TIRE ASSEMBLY (17HP Models Only) (Includes Ref. 3, 4 & 5)
3	1720330	2	REAR TIRE, 20x8.00-8 2 PLY (17HP Models Only)
3	1720370	2	REAR TIRE, 18x8.50-8 2 PLY (14.5HP & 15.5HP Models Only)
4	1716132	2	REAR WHEEL ASSEMBLY, Rim
5	172353	2	VALVE STEM & CAP
6	1960160	4	WASHER, 3/4
7	1673333	4	CAP, Axle
8	1960114	4	WASHER, 3/4
9	1719449	2	FRONT WHEEL & TIRE ASSEMBLY (Includes Ref. 5, 10, 11 & 12)
10	1715032	2	FRONT WHEEL ASSMBLY, Rim (Includes Ref. 11)
11	1713167	2	BEARING
12	1720337	2	FRONT TIRE, 15X6.00-6 2 PLY

### Footnotes:

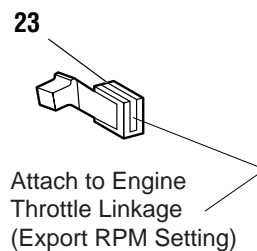
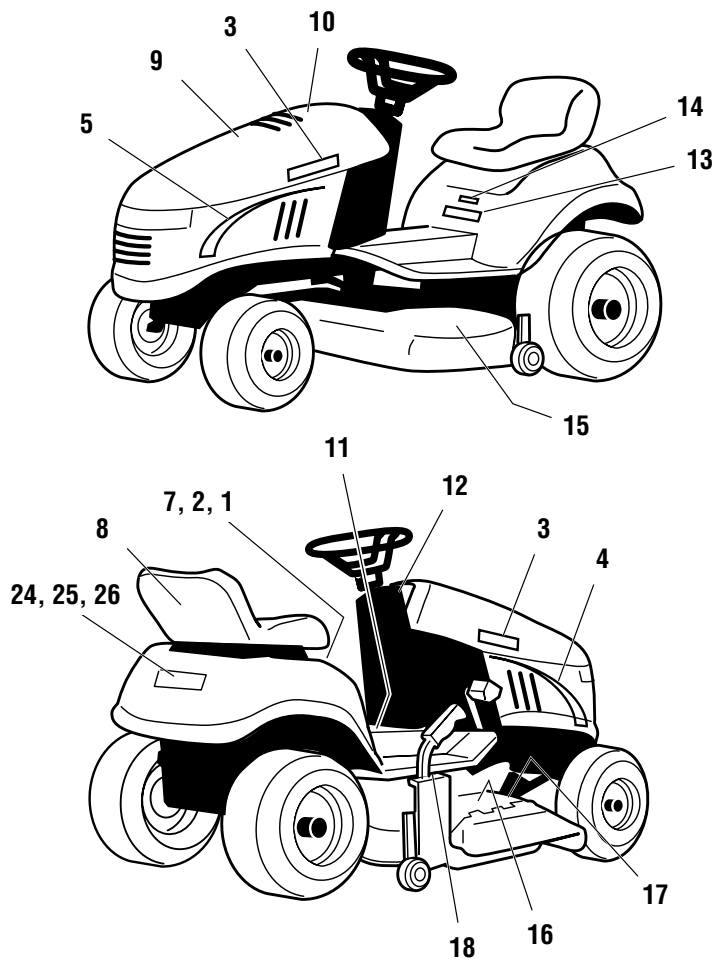
#### The above parts group applies to the following Mfg. Nos.:

1693452	Express, 14.5HP Gear	1693458	Express, 15.5HP Hydro	1693525	Express, 17HP Hydro
1693586	Express, 14.5HP Gear (Export)	1693589	Express, 15.5HP Hydro (Export)	1693641	Express, 17HP Hydro (Export)
1693666	Express, 14.5HP Gear (Export)	1693668	Express, 15.5HP Hydro (Export)	1693670	Express, 17HP Hydro (Export)
1693732	Express, 14.5HP Gear (Export)	1693734	Express, 15.5HP Hydro (Export)	1693736	Express, 17HP Hydro (Export)

## Decals Group

**NOTE:** Unless noted otherwise, use the standard hardware torque specification chart.

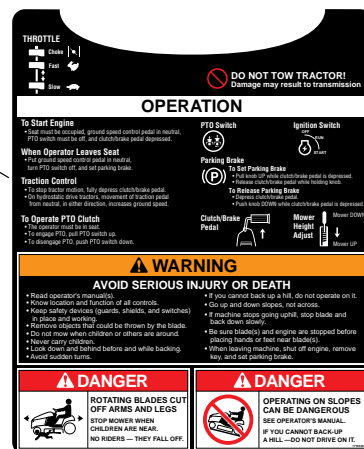
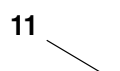
F1161DCL



10

XXXX TRACTORS DRIVE BELTS & MOWER BLADES	
Transmission Belt	XXXXXX
Gear	XXXXXX
Hydro	XXXXXX
38" Mower	
Drive Belt	XXXXXX
Mower Blade - Left	XXXXXX
Mower Blade - Right	XXXXXX
44" Mower	
Deck Drive Belt	XXXXXX
Drive Belt	XXXXXX
Mower Belt	XXXXXX
38" / 44" Snowthrower Drive Belt	XXXXXX

For safety and reliability, insist on genuine Simplicity Manufacturing, Inc. belts and blades...our name stamped on the part is your assurance of quality.



### Touch-up Paint

- 20 — 1 - 12oz. Spray Can
- 21 — 12 - 12 oz. Spray Cans
- 22 — 1 Quart



### The above parts group applies to the following Mfg. Nos.:

1693452	Express, 14.5HP Gear	1693458	Express, 15.5HP Hydro	1693525	Express, 17HP Hydro	1693464	38" Mower Deck
1693586	Express, 14.5HP Gear (Exp)	1693589	Express, 15.5HP Hydro (Exp)	1693641	Express, 17HP Hydro (Exp)	1693588	38" Mower Deck (Exp)
1693666	Express, 14.5HP Gear (Exp)	1693668	Express, 15.5HP Hydro (Exp)	1693670	Express, 17HP Hydro (Exp)	1693527	44" Mower Deck
1693732	Express, 14.5HP Gear (Exp)	1693734	Express, 15.5HP Hydro (Exp)	1693736	Express, 17HP Hydro (Exp)	1693591	44" Mower Deck (Exp)

## Decals Group

REF NO.	PART NO.	QTY.	DESCRIPTION
1	1719510	1	DECAL, Express
2	1719508	1	DECAL, Shift Pattern (Gear Models Only) (Early Models)
2	1719509	1	DECAL, Shift Pattern (Hydro Models Only) (Early Models)
2	1721277	1	DECAL, Shift Pattern (Hydro Models Only) (Later Models)
2	1721443	1	DECAL, Shift Pattern (Gear Models Only) (Later Models)
3	1719863	2	DECAL, Express Hood Logo
4	1719516	1	DECAL, R.H. Hood Stripe
5	1719517	1	DECAL, L.H. Hood Stripe
6	*	1	DECAL, Patent (Not Serviced)
7	1719635	1	DECAL, Release Valve (Hydro Models Only)
7	1720512	1	DECAL, 1415 - AGCO Allis
7	1720513	1	DECAL, 1416 - AGCO Allis
7	1720514	1	DECAL, 1417 - AGCO Allis
8	1708927	1	DECAL, Logo, USA
9	1720047	1	DECAL, Touch Up Paint
9	1720455	1	DECAL, Touch Up Paint
10	1719518	1	DECAL, Belt & Blade
11	1719519	1	DECAL, Operating Instructions
11	1720625	1	DECAL, Operating Instructions (Export Only)
11	1721004	1	DECAL, Operating Instructions, Icon Based (Export Models Only)
12	1719776	1	DECAL, PTO Control
13	1719864	1	DECAL, Simplicity Logo
14	1719876	1	DECAL, Model (14.5HP Gear Model Only)
14	1719877	1	DECAL, Model (15.5HP Hydro Model Only)
14	1719878	1	DECAL, Model (17HP Hydro Model Only)
15	1704276	1	DECAL, Danger, Rotating Cutting Blade
16	1704277	1	DECAL, Danger, Chute in Place
17	1704477	1	DECAL, Cutting Width, 38"
17	1704478	1	DECAL, Cutting Width, 44"
18	1717736	1	DECAL, Height of Cut
19	*	1	DECAL, OPEI (Not Serviced)
20	1686772	1	TOUCH-UP PAINT, Cardinal Red, 1-12oz Spray Can
21	1686774	1	TOUCH-UP PAINT, Cardinal Red, 12-12oz Spray Cans
22	1686773	1	TOUCH-UP PAINT, Cardinal Red, 1-1qt Can
23	1708442	1	STOP, Throttle (Export Only)
24	*	1	DECAL, Decibel (Export Only) (Not Serviced)
25	*	1	DECAL, CE (Export Only) (Not Serviced)
26	*	1	DECAL, POWER MASS (1693641 & 1693670 Only) (Not Serviced)

### Footnotes:

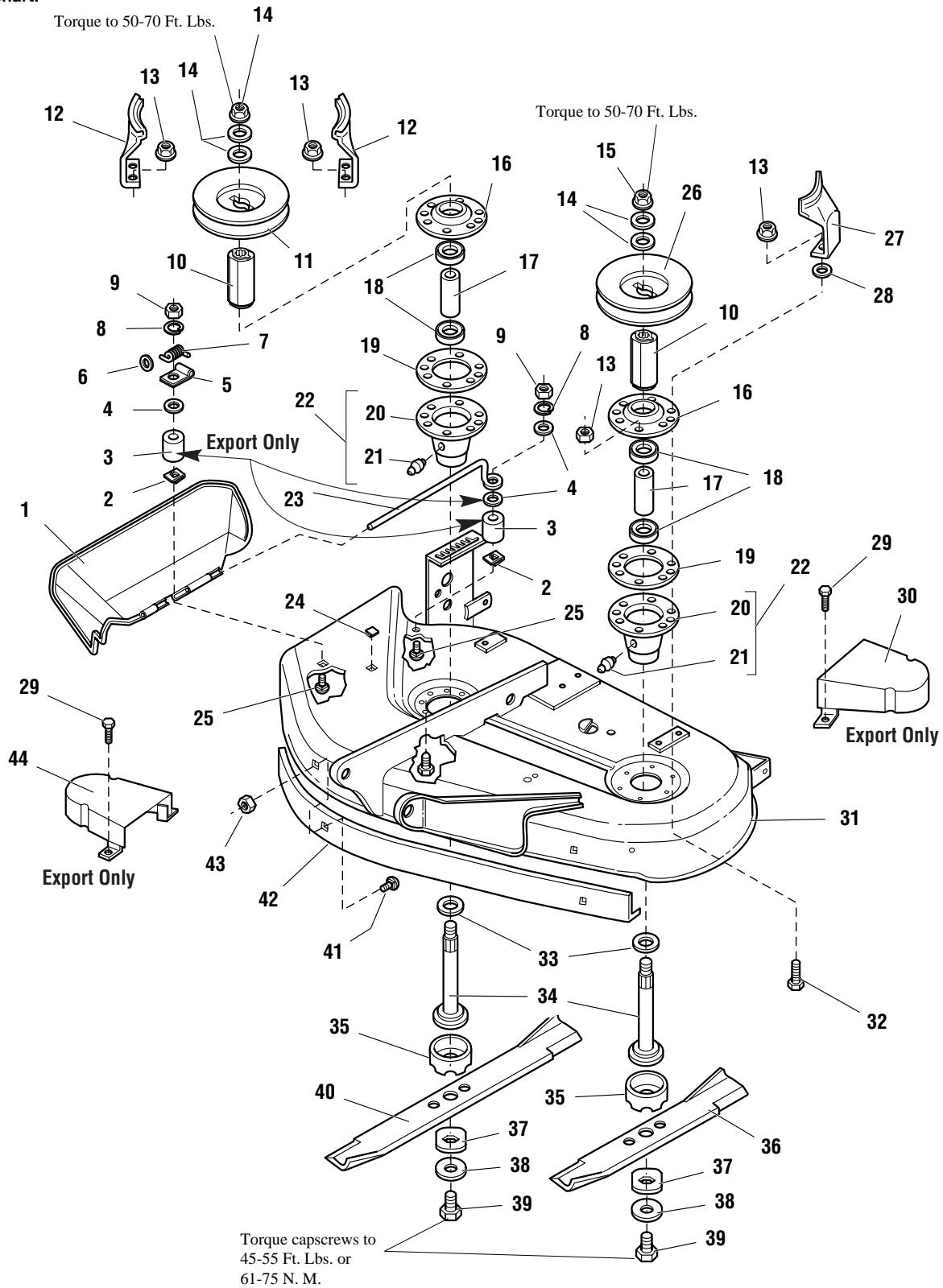
#### The above parts group applies to the following Mfg. Nos.:

1693452	Express, 14.5HP Gear	1693458	Express, 15.5HP Hydro	1693525	Express, 17HP Hydro	1693464	38" Mower Deck
1693586	Express, 14.5HP Gear (Exp)	1693589	Express, 15.5HP Hydro (Exp)	1693641	Express, 17HP Hydro (Exp)	1693588	38" Mower Deck (Exp)
1693666	Express, 14.5HP Gear (Exp)	1693668	Express, 15.5HP Hydro (Exp)	1693670	Express, 17HP Hydro (Exp)	1693527	44" Mower Deck
1693732	Express, 14.5HP Gear (Exp)	1693734	Express, 15.5HP Hydro (Exp)	1693736	Express, 17HP Hydro (Exp)	1693591	44" Mower Deck (Exp)

### **38" Mower Decks - Housing, Arbors & Blades**

**NOTE: Unless noted otherwise, use the standard hardware torque specification chart.**

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**The above parts group applies to the following Mfg. Nos.:**

1693464	38" Mower Deck
1693588	38" Mower Deck (Export)

### 38" Mower Decks - Housing, Arbors & Blades

REF NO.	PART NO.	QTY.	DESCRIPTION
1	1705449	1	DEFLECTOR, Plastic
2	1960518	2	NUT, Push On
3	1705249	2	SPACER (Export Models Only)
4	1960353	3	WASHER, 1/4 (Export Models Only, Qty 1)
5	1704873	1	CLAMP
6	1919326	1	WASHER, Plain, 5/16
7	1705080	1	SPRING
8	1916964	2	LOCKWASHER, 1/4
9	1916622	2	NUT, Hex, 1/4-20
10	1713616	2	HUB
11	1720388	1	PULLEY, Deck Drive, R.H. 5.25
12	1714322	2	STOP, Belt, R.H.
13	1927557	2	NUT, Hex, Flange Whiz Lock, 5/16-18
14	1713675	4	WASHER, Belleville
15	1714419	2	NUT, Hex, Flange, 9/16-8
16	1713199	2	COVER, Arbor Housing
17	1713204	2	SPACER
18	1705897	4	BEARING
19	1707335	2	GASKET, Foam
20	1713198	2	HOUSING ARBOR, Bottom
21	1704314	2	FITTING, Grease
22	1713338	2	ARBOR HOUSING ASSEMBLY (Incl. Fitting Ref. 21)
23	1706709	1	ROD, Deflector, Front
24	1705115	2	PLUG, Plastic
25	1960633	2	CARRIAGE BOLT, 1/4-20 x 1 1/2
26	1720387	1	PULLEY, Deck Drive, L.H. 4.0
27	1714321	1	STOP, Belt, L.H.
28	1924940	2	WASHER, Plain, 3/8
29	1664847	3	CAPSCREW, Taptite Hex Washer Hd, 5/16-18 x 3/4
30	1721143	1	COVER & SUPPORT ASSEMBLY, Arbor L.H. (Export Models Only)
31	41721160	1	HOUSING ASSEMBLY, 38" Mower (Cardinal Red)
32	1960373	12	CAPSCREW, Taptite Hex Washer Hd, 5/16-18 x 1
33	1713619	2	WASHER
34	1713612	2	SHAFT, Arbor
35	1713196	2	SHIELD, Grass, Lower
36	1704856	1	BLADE, Mower, 16-1/8"
37	1713089	2	WASHER, Hex
38	1656916	2	WASHER, Spring
39	923471	2	CAPSCREW, Hex, Hd., 7/16-14 x -1/4
40	1704101	1	BLADE, Mower, 22-1/4"
41	1931333	4	CARRIAGE BOLT, 5/16 - 18 x 3/4 G5
42	1715817	1	BAFFLE, Anti-Blowout (Export Models Only)
43	1935048	4	NUT, Hex Flange Lock, 5/16-18
44	1721142	1	COVER & SUPPORT ASSEMBLY, Arbor R.H. (Export Models Only)

#### Footnotes:

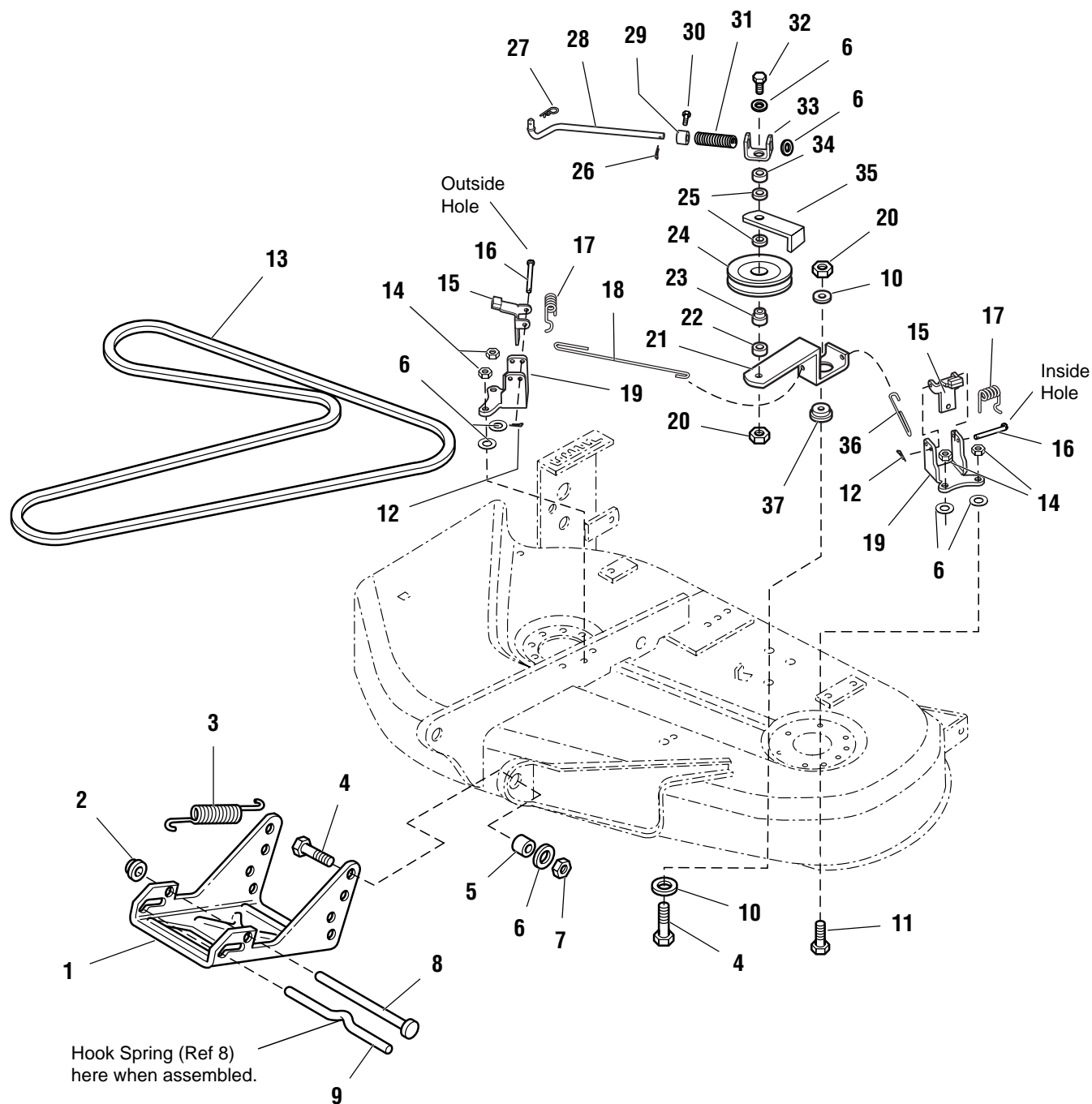
The above parts group applies to the following Mfg. Nos.:

- 1693464 38" Mower Deck
- 1693588 38" Mower Deck (Export)

## 38" Mower Decks - Clutch & Support

985487

NOTE: Unless noted otherwise,  
use the standard hardware torque  
specification chart.



The above parts group applies to the following Mfg. Nos.:

- 1693464 38" Mower Deck
- 1693588 38" Mower Deck (Export)

### 38" Mower Decks - Clutch & Support

REF NO.	PART NO.	QTY.	DESCRIPTION
1	1713561	1	HITCH
2	1960519	1	NUT, Push, 1/2
3	156302	1	SPRING, Gear Shift
4	1921969	3	CAPSCREW, Hex Hd, 3/8-16 x 1-1/2
5	157081	2	SPACER
6	1924940	7	WASHER, Plain, 3/8
7	1919439	2	NUT, ESNA Hex Lock, 3/8-16
8	1713578	1	ROD, Mower Hitch
9	1715759	1	ROD, Latch
10	1924356	2	WASHER, 3/8
11	1922605	4	CAPSCREW, Hex Hd, 3/8-16 x 1-1/4
12	1918447	2	PIN, Cotter, 3/32 x 3/4
13	1716854	1	V-BELT
14	1927557	4	NUT, Hex, Flange Whiz Lock, 5/16-18
15	1719419	2	BRAKE ACTUATOR & PAD ASSEMBLY
16	1960607	2	PIN, Clevis
17	1719526	2	SPRING, Torsion
18	1719434	1	ROD, R.H. Brake
19	1719427	2	SUPPORT, Brake
20	1960339	2	NUT, Hex Flange Whiz Lock, 3/8-16
21	1720594	1	ARM & GUSSET ASSEMBLY, Idler
22	1667812	1	SPACER
23	1666294	1	SPACER
24	1665460	1	PULLEY ASSEMBLY, with Bearing
25	1922755	3	WASHER, Plain, 3/8
26	1918451	1	COTTER PIN, 1/8 x 3/4
27	1960074	1	CLIP, Spring
28	1720450	1	ROD, Clutch
29	1719777	1	SET-COLLAR
30	1928721	1	SET-SCREW, Hex Socket, Cup Pt, 5/16 - 18 x 1/2
31	1720462	1	SPRING, Compression
32	1921972	1	CAPSCREW, Hex Hd, 3/8-16 x 2-1/2
33	1719539	1	GUIDE, Clutch Rod
34	108717	1	SPACER
35	1677135	1	GUARD, Spring
36	1719433	1	ROD, L.H. Brake
37	1714255	1	SPACER, Idler Arm

#### Footnotes:

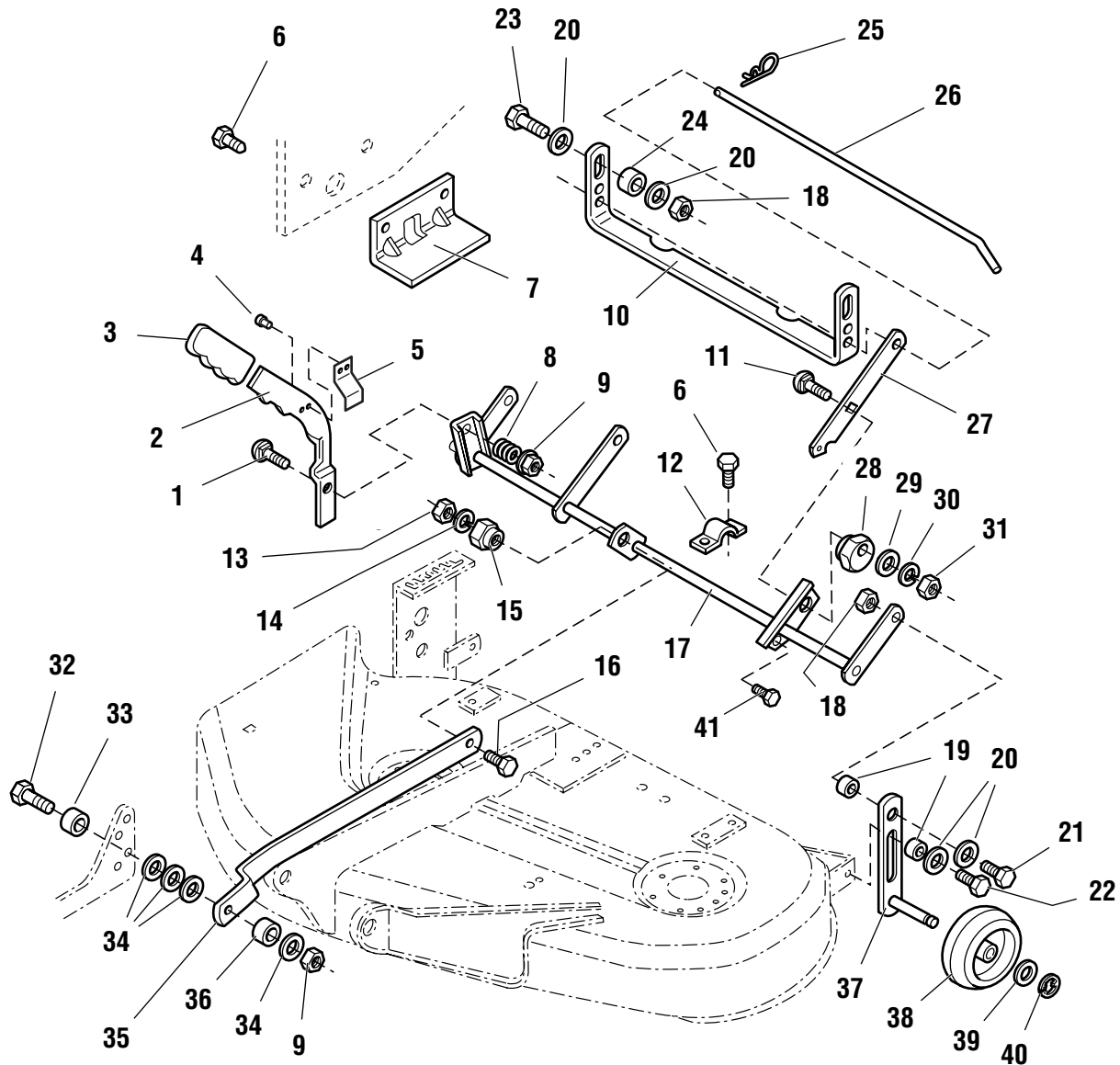
The above parts group applies to the following Mfg. Nos.:

1693464 38" Mower Deck  
1693588 38" Mower Deck (Export)

## 38" Mower Decks - Height Adjustment

985488

NOTE: Unless noted otherwise,  
use the standard hardware torque  
specification chart.



The above parts group applies to the following Mfg. Nos.:

1693464 38" Mower Deck  
1693588 38" Mower Deck (Export)



### 38" Mower Decks - Height Adjustment

REF NO.	PART NO.	QTY.	DESCRIPTION
1	1931353	1	CARRIAGE BOLT, 3/8-16 x 1-3/4
2	1717658	1	ADJUSTMENT ARM
3	1714876	1	GRIP
4	910542	2	RIVET
5	1716028	1	SPRING, Handle
6	1664847	4	CAPSCREW, Hex Washer Hd, Taptite, 5/16 - 18 x 3/4
7	1714910	1	BRACKET, Upstop
8	1714263	1	SPRING
9	1930645	2	NUT, Hex Flange Whiz Lock, 3/8-16
10	1719792	1	BRACKET, "U"
11	1960223	1	CARRIAGE BOLT, 5/16-18 x 1-1/4
12	1665374	1	STRAP
13	1916950	1	NUT, Hex, Full, 3/8-16
14	1916965	1	LOCKWASHER, 3/8
15	1704082	1	NUT, Adjuster
16	1931352	1	CARRIAGE BOLT, 3/8-16 x 1-1/2
17	1714327	1	ROCKER ARM ASSEMBLY
18	1923362	4	NUT, Hex Lock, 5/16-18
19	1960236	4	SPACER
20	1960044	8	WASHER, 5/16
21	1921333	2	CAPSCREW, Hex Hd, 5/16-18 x 1
22	1960373	2	CAPSCREW, Taptite Hex Washer Hd, 5/16-18 x 1
23	1921977	2	CAPSCREW, Hex Hd, 5/16-18 x 1-1/4
24	1710703	2	SPACER
25	1960074	1	CLIP, Spring
26	1714529	1	ROD, Transport
27	1717297	1	ARM, Rear
28	1714879	1	ECCENTRIC
29	1924874	1	WASHER, Flat, 5/16
30	1917356	1	LOCKWASHER, 5/16
31	1917372	1	NUT, Hex, Full, 5/16-18
32	1923701	1	CAPSCREW, Hex Hd., 3/8-16 x 2, Grade 5
33	1715024	1	SPACER
34	1924940	4	WASHER, Plain, 3/8
35	1721081	1	ARM, Pitch
36	1611705	1	SPACER
37	1714877	2	ARM ASSEMBLY
38	1714760	2	GAUGE WHEEL
39	1960027	2	WASHER, 1/2
40	158399	2	RETAINING RING
41	1960594	1	CAPSCREW, Hex Washer Hd, Taptite, 5/16 - 18 x 7/8

#### Footnotes:

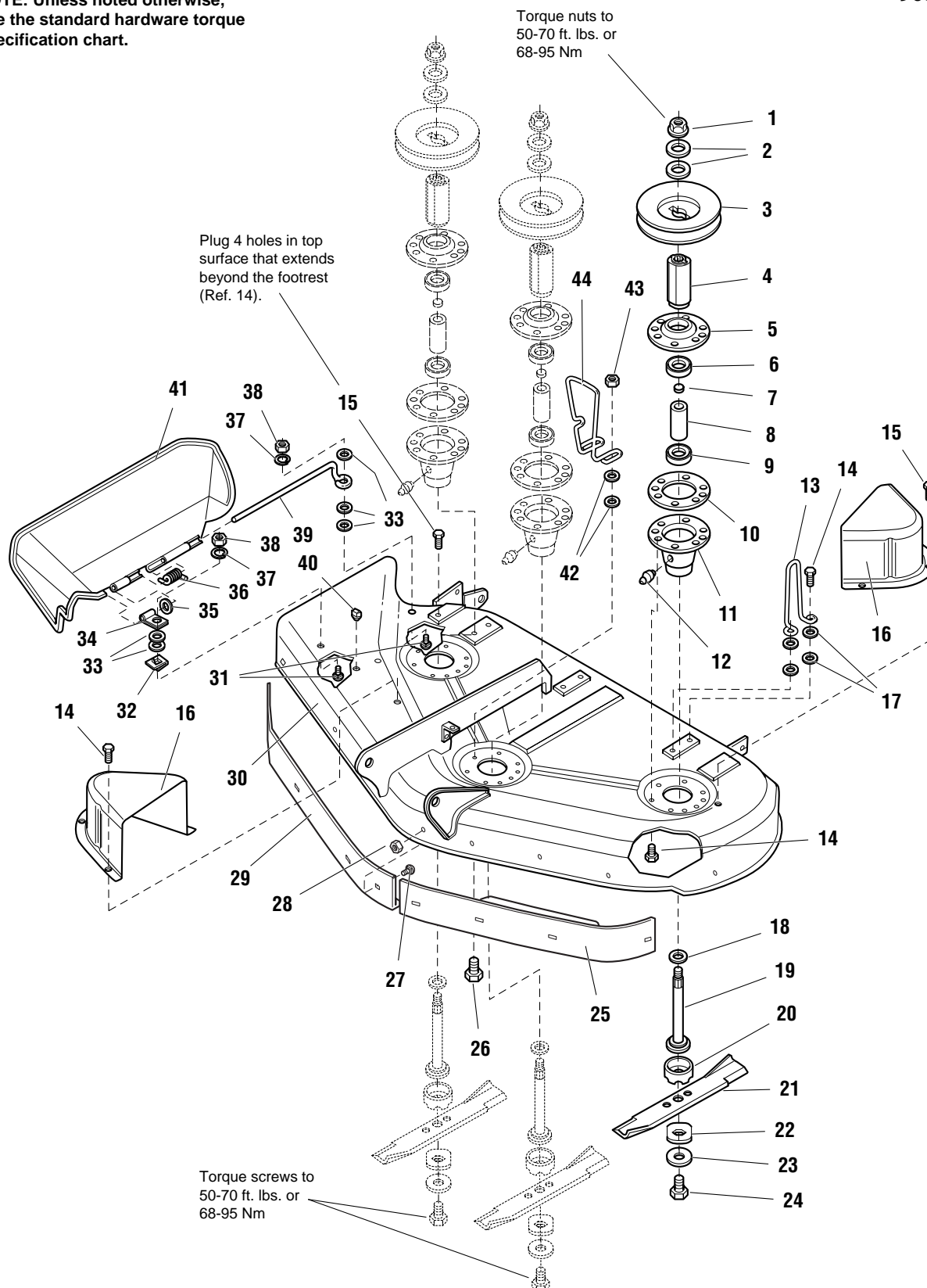
The above parts group applies to the following Mfg. Nos.:

- 1693464 38" Mower Deck
- 1693588 38" Mower Deck (Export)

## 44" Mower Decks - Housing, Arbors & Blades

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**NOTE:** Unless noted otherwise, use the standard hardware torque specification chart.



The above parts group applies to the following Mfg. Nos.:

- 1693527 44" Mower Deck
- 1693591 44" Mower Deck (Export)

**44" Mower Decks - Housing, Arbors & Blades**

REF NO.	PART NO.	QTY.	DESCRIPTION
1	1714419	3	NUT, Hex, Flange, 9/16-8
2	1713675	6	WASHER, Belleville
3	1713161	3	PULLEY, R.H. Arbor, Center Arbor & L.H. Arbor
4	1713616	3	HUB, Adapter (R.H., Center & L.H.)
5	1655729	3	COVER, Arbor Housing
6	108202	3	BEARING, Upper
7	1715724	3	SPACER, Sleeve, Upper Bearing
8	1715723	3	SPACER, Arbor, Internal
9	1705897	3	BEARING, Lower
10	1707335	3	GASKET, Foam
11	1713338	3	ARBOR HOUSING ASSEMBLY (Incl. Fitting Ref. 12)
12	1704314	3	FITTING, Grease
13	1720659	1	UP-STOP, 5 1/4 High
14	1960373	18	CAPSCREW, Taptite Hex Washer Hd, 5/16-18 x 1
15	1664847	11	CAPSCREW, Taptite Hex Washer Hd, 5/16-18 x 3/4
16	1720560	2	COVER, Arbor
17	1919381	4	WASHER, 5/16
18	1713619	3	WASHER
19	1713612	3	SHAFT, Arbor (R.H., Center & L.H.)
20	1713196	3	SHIELD, Grass, Lower
21	1704100	3	BLADE, Mower
22	1713089	3	WASHER, Hex
23	1656916	3	WASHER, Spring
24	923471	3	CAPSCREW, Hex, Hd., 7/16-14 x 1-1/4
25	1716879	1	BAFFLE, Blowout, L.H. (Export Only)
26	1930600	2	CAPSCREW, Taptite Hex Washer Hd, 5/16-18 x 1 1/2
27	1931333	8	CARRIAGE BOLT, 5/16-18 x 3/4 (Export Only)
28	1935048	8	NUT, Hex Flange 2-Way Lock 5/16-18 (Export Only)
29	1716878	1	BAFFLE, Blowout R.H. (Export Only)
30	41721165	1	HOUSING ASSEMBLY, (Cardinal Red)
31	1931318	2	CARRIAGE BOLT, 1/4-20 x 7/8 (Domestic Only)
32	1960518	2	NUT, Push On
33	1960353	5	WASHER, Plain, 1/4
34	1704873	1	CLAMP
35	1919326	1	WASHER, Plain, 5/16
36	1705080	1	SPRING, Deflector Retaining
37	1916964	2	LOCKWASHER, 1/4
38	1916622	2	NUT, Hex, 1/4-20, UNC
39	1706709	1	ROD, Deflector, Front
40	1705115	1	PLUG, Hole
41	1705449	1	DEFLECTOR, Plastic
42	1924940	2	WASHER, 3/8
43	1927557	2	NUT, Hex FlangeWhiz Lock, 5/16-18
44	1704099	1	BELT STOP, Center

**Footnotes:**

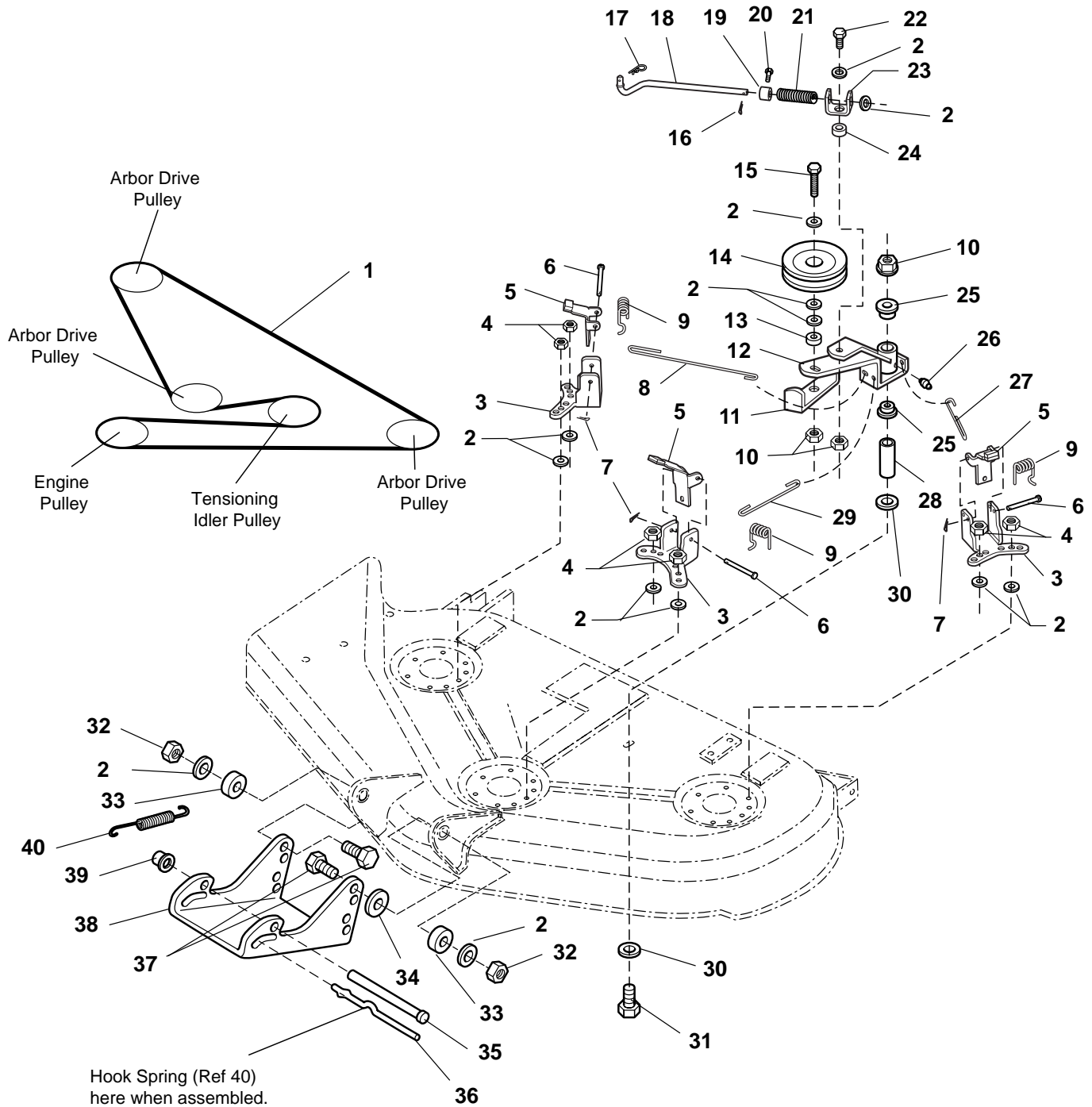
The above parts group applies to the following Mfg. Nos.:

1693527 44" Mower Deck  
1693591 44" Mower Deck (Export)

## 44" Mower Decks - Clutch & Support

985561

**NOTE:** Unless noted otherwise,  
use the standard hardware torque  
specification chart.



The above parts group applies to the following Mfg. Nos.:

- 1693527 44" Mower Deck
- 1693591 44" Mower Deck (Export)

## 44" Mower Decks - Clutch & Support

REF NO.	PART NO.	QTY.	DESCRIPTION
1	1719911	1	V-BELT
2	1924940	13	WASHER, 3/8
3	1719933	3	SUPPORT, Brake Actuator
4	1927557	6	NUT, Hex Flange Whix Lock, 5/16
5	1719419	3	ACTUATOR & PAD ASSEMBLY, Brake
6	1960607	3	PIN, Clevis, 3/4 Hd
7	1918447	3	COTTER PIN
8	1719944	1	ROD, Brake R.H.
9	1719526	3	SPRING
10	1960339	3	NUT, Hex Flange Whix Lock, 3/8
11	1719936	1	RETAINER, Belt
12	1720630	1	IDLER ARM ASSEMBLY, with Bushings
13	1667811	1	SPACER
14	171247	1	PULLEY ASSEMBLY, Idler
15	1923701	1	CAPSCREW, Hex Hd, 3/8-16 x 2
16	1918451	1	COTTER PIN
17	1960074	1	CLIP, Hair Pin
18	1720540	1	ROD, 2 Bends
19	1719777	1	COLLAR, Set
20	1928721	1	SET SCREW, Square Hd Cup Point, 5/16-18 x 1/2
21	1720462	1	SPRING
22	1921210	1	CAPSCREW, Hex Hd, 3/8-16 x 1
23	1719539	1	GUIDE, C
24	108717	1	SPACER
25	1676148	2	BUSHING
26	912808	2	FITTING
27	1719943	1	ROD, Brake L.H.
28	1657242	1	SPACER
29	1720539	1	ROD, Brake Center
30	1924356	2	WASHER, 3/8
31	1928957	1	CAPSCREW, Hex Hd, 3/8-16 x 2 3/4
32	1919439	2	NUT, Hex Nylon Lock, 3/8-16
33	157081	2	SPACER
34	1919384	1	WASHER, 3/8
35	1713578	1	ROD, Mower Hitch
36	1715759	1	ROD, Latch
37	1921969	2	CAPSCREW, Hex Hd, 3/8-16 x 1-1/2
38	1713561	1	HITCH
39	1960519	1	NUT, Push, 1/2
40	156302	1	SPRING

### Footnotes:

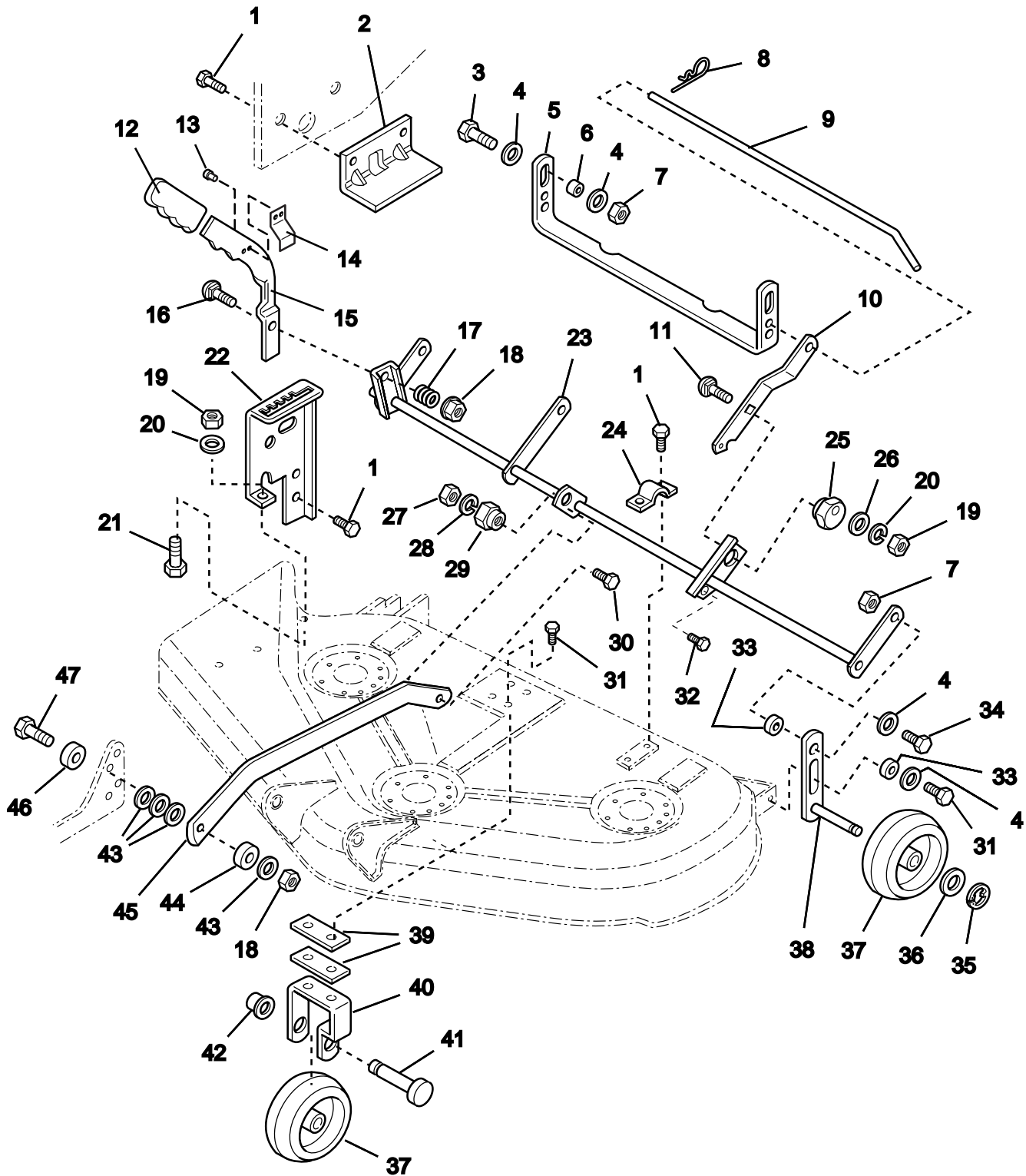
The above parts group applies to the following Mfg. Nos.:

1693527 44" Mower Deck  
1693591 44" Mower Deck (Export)

## 44" Mower Decks - Height Adjustment

985562

NOTE: Unless noted otherwise,  
use the standard hardware torque  
specification chart.



The above parts group applies to the following Mfg. Nos.:

- 1693527 44" Mower Deck
- 1693591 44" Mower Deck (Export)

## 44" Mower Decks - Height Adjustment

REF NO.	PART NO.	QTY.	DESCRIPTION
1	1664847	8	CAPSCREW, Taptite Hex Washer Hd, 5/16-18 x 3/4
2	1714910	1	BRACKET, "L"
3	1921977	2	CAPSCREW, Hex Hd, 5/16-18 x 1-1/4
4	1960044	8	WASHER, 5/16
5	1719792	1	BRACKET, "U"
6	1710703	2	SPACER
7	1923362	4	NUT, Hex Lock, 5/16-18
8	1960074	1	CLIP, Spring
9	1714529	1	ROD, Transport
10	1717145	1	ARM, Rear
11	1960223	1	CARRIAGE BOLT, 5/16-18 x 1-1/4
12	1714876	1	GRIP
13	910542	2	RIVET
14	1716028	1	SPRING, Handle
15	1717658	1	ARM, Adjustment (includes ref. 13 & 14)
16	1931353	1	CARRIAGE BOLT, 3/8-16 x 1-3/4
17	1714263	1	SPRING
18	1930645	2	NUT, Hex Flange Whiz Lock Two Way, 3/8-16
19	1917372	2	NUT, Hex, Full, 5/16-18
20	1917356	2	LOCKWASHER, 5/16
21	1921332	1	CAPSCREW, Hex Hd, 5/16-18 x 3/4
22	1717109	1	QUADRANT
23	1715671	1	ARM ASSEMBLY, Rocker
24	1665374	2	STRAP
25	1714879	1	ECCENTRIC
26	1924874	1	WASHER, 5/16
27	1916950	1	NUT, Hex, 3/8
28	1916965	1	WASHER, Lock, 3/8
29	1704082	1	NUT, Adjuster
30	1931352	1	CARRIAGE BOLT, 3/8-16 x 1-1/2
31	1960373	4	CAPSCREW, Taptite Hex Washer Hd, 5/16-18 x 1
32	1960594	1	CAPSCREW, Taptite Hex Washer Hd, 5/16-18 x 7/8
33	1960236	4	SPACER
34	1921333	2	CAPSCREW, Hex Hd, 5/16-18 x 1
35	158399	4	E-RING, 1/2
36	1960027	4	WASHER, 1/2
37	1714760	5	WHEEL, Gauge
38	1714877	2	ARM ASSEMBLY
39	1715608	2	STRAP
40	1714881	1	BRACKET, Gauge Wheel
41	1715624	1	ROD, Mower Hitch
42	1960519	1	NUT, Push, 1/2
43	1924940	4	WASHER, 3/8
44	1611705	1	SPACER
45	1718019	1	ARM, Pitch
46	1715024	1	SPACER
47	1923701	1	CAPSCREW, Hex Hd, 3/8-16 x 2, Grade 5

### Footnotes:

The above parts group applies to the following Mfg. Nos.:

- 1693527 44" Mower Deck
- 1693591 44" Mower Deck (Export)

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*	6	5	778364	10	6	916950	6	7	1678341	14	50	1709235	2	14
*	6	5	778365	10	6A	920426	28	11	1686772	32	20	1710437	4	22
*	32	6	780001	10	31	920427	6	6	1686773	32	22	1710703	24	25
*	32	19	780072	10	29	921133	8	41	1686774	32	21	1710703	38	24
*	32	24	780086A	10	2	923471	34	39	1700751	28	17	1710703	44	6
*	32	25	780090	10	76	923471	40	24	1703484	28	16	1713089	34	37
*	32	26	780108	10	30	925094	28	34	1703508	4	7	1713089	40	22
101025	28	25	780140	10	73	927103	8	12	1703900	22	38	1713161	40	3
106681	14	19	780160	10	29A	927794	8	8	1704082	38	15	1713167	30	11
108202	40	6	780165	10	29B	927794	14	22	1704082	44	29	1713196	34	35
108717	14	45	780189	10	65	930598	6	18	1704099	40	44	1713196	40	20
108717	36	34	780193	10	35	934683	28	40	1704100	40	21	1713198	34	20
108717	42	24	780194	10	34	960202	8	9	1704101	34	40	1713199	34	16
122023	28	43	780195	10	31A	960202	14	23	1704276	32	15	1713204	34	17
156302	8	23	780197	10	35A	960361	6	22	1704277	32	16	1713338	34	22
156302	36	3	784352	10	9	960551	8	3	1704314	34	21	1713338	40	11
156302	42	40	784378	10	10	960551	14	33	1704314	40	12	1713375	4	26
157081	36	5	786026	10	39	960583	14	30	1704351	2	5	1713400	2	18
157081	42	33	786066	10	45	960584	14	29	1704351	24	3	1713432	22	5
158399	38	40	786071	10	63	1611705	38	36	1704443	28	1	1713454	4	20
158399	44	35	786072	10	64	1611705	44	44	1704477	32	17	1713469	4	24
165068	22	12	786084	10	75	1611710	4	13	1704478	32	17	1713561	36	1
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172353	30	5	786139	10	17	1655729	40	5	1704628	24	16	1713578	42	35
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172434	28	39	788040	10	28	1656916	40	23	1704856	34	36	1713612	40	19
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776394	10	66	790025	10	44	1664847	34	29	1705449	34	1	1713785	22	7
776395	10	4	790075	10	36	1664847	38	6	1705449	40	41	1713791	4	18
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1714879	38	28	1717658	38	2	1719449	30	9	1719963*	14	52	1720675	14	39
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1715024	38	33	1717994	22	2	1719470	22	11	1720330	30	3	1721143	34	30
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1715671	44	23	1718071	18	67	1719519	32	11	1720419	18	39	1916622	34	9
1715723	40	8	1718076	18	11	1719526	36	17	1720420	18	2	1916622	40	38
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1716878	40	29	1718102	18	21	1719776	32	12	1720434	18	34	1916965	44	28
1716879	40	25	1718103	18	38	1719777	36	29	1720435	18	36	1917356	8	29
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1717163	28	21	1718111	18	20	1719824	8	33	1720440	18	64	1917372	14	9
1717189	2	16	1718112	18	18	1719825	8	34	1720441	18	22	1917372	38	31
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1717292	14	8	1718114	18	69	1719863	32	3	1720450	36	28	1918199	6	21
1717297	38	27	1718115	18	70	1719864	32	13	1720455	32	9	1918199	14	40

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1919438	22	25	1924940	40	42	1960027	8	25	1960633	34	25			
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1921333	14	54	1928957	42	31	1960223	14	53						
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1921333	44	34	1930600	40	26	1960236	38	19						
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1921972	36	32	1930645	44	18	1960339	36	20						
1921977	14	49	1930810	14	17	1960339	42	10						
1921977	38	23	1930947	28	29	1960353	14	13						
1921977	44	3	1931003	28	28	1960353	34	4						
1922234	8	49	1931202	24	20	1960353	40	33						
1922605	36	11	1931277	14	43	1960368	24	6						
1922611	4	10	1931277	26	9	1960370	6	20						
1922755	36	25	1931318	40	31	1960373	34	32						
1922837	24	26	1931333	8	27	1960373	38	22						



# Hardware Identification & Torque Specifications

## Common Hardware Types

Hex Head Capscrew



Washer



Lockwasher



Carriage Bolt



Hex Nut

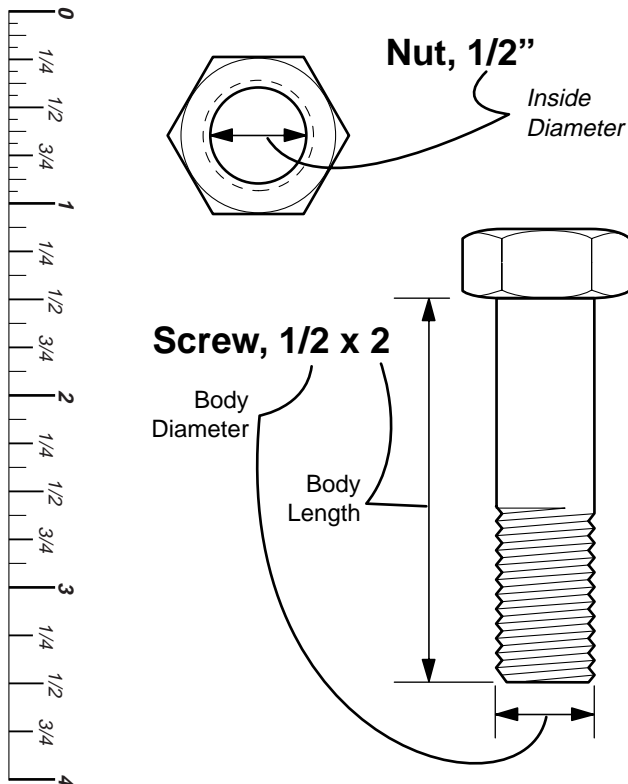


## Standard Hardware Sizing

When a washer or nut is identified as **1/2"**, this is the *Nominal size*, meaning the *inside diameter* is 1/2 inch; if a second number is present it represents the *threads per inch*

When bolt or capscrew is identified as **1/2 - 16 x 2"**, this means the *Nominal size*, or *body diameter* is 1/2 inch; the second number represents the *threads per inch* (16 in this example, and the final number is the *body length* of the bolt or screw (in this example 2 inches long).

**The guides and ruler furnished below are designed to help you select the appropriate hardware and tools.**



## Torque Specification Chart

FOR STANDARD MACHINE HARDWARE (Tolerance  $\pm 20\%$ )

Hardware Grade	No Marks					
	SAE Grade 2		SAE Grade 5		SAE Grade 8	
Size Of Hardware	in/lbs ft/lbs	Nm.	in/lbs ft/lbs	Nm.	in/lbs ft/lbs	Nm.
8-32	19	2.1	30	3.4	41	4.6
8-36	20	2.3	31	3.5	43	4.9
10-24	27	3.1	43	4.9	60	6.8
10-32	31	3.5	49	5.5	68	7.7
1/4-20	66	7.6	8	10.9	12	16.3
1/4-28	76	8.6	10	13.6	14	19.0
5/16-18	11	15.0	17	23.1	25	34.0
5/16-24	12	16.3	19	25.8	27	34.0
3/8-16	20	27.2	30	40.8	45	61.2
3/8-24	23	31.3	35	47.6	50	68.0
7/16-14	30	40.8	50	68.0	70	95.2
7/16-20	35	47.6	55	74.8	80	108.8
1/2-13	50	68.0	75	102.0	110	149.6
1/2-20	55	74.8	90	122.4	120	163.2
9/16-12	65	88.4	110	149.6	150	204.0
9/16-18	75	102.0	120	163.2	170	231.2
5/8-11	90	122.4	150	204.0	220	299.2
5/8-18	100	136	180	244.8	240	326.4
3/4-10	160	217.6	260	353.6	386	525.0
3/4-16	180	244.8	300	408.0	420	571.2
7/8-9	140	190.4	400	544.0	600	816.0
7/8-14	155	210.8	440	598.4	660	897.6
1-8	220	299.2	580	788.8	900	1,244.0
1-12	240	326.4	640	870.4	1,000	1,360.0

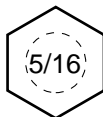
### NOTES

- These torque values are to be used for all hardware excluding: locknuts, self-tapping screws, thread forming screws, sheet metal screws and socket head setscrews.
- Recommended seating torque values for locknuts:
  - for prevailing torque locknuts - use 65% of grade 5 torques.
  - for flange whizlock nuts and screws - use 135% of grade 5 torques.
- Unless otherwise noted on assembly drawings, all torque values must meet this specification.

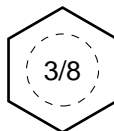
## Wrench & Fastener Size Guide



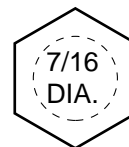
**1/4" Bolt or Nut**  
Wrench—7/16"



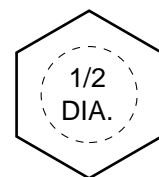
**5/16" Bolt or Nut**  
Wrench—1/2"



**3/8" Bolt or Nut**  
Wrench—9/16"



**7/16" Bolt or Nut**  
Wrench (Bolt)—5/8"  
Wrench (Nut)—11/16"



**1/2" Bolt or Nut**  
Wrench—3/4"